World-Class Instructional Design and Assessment



# Annual Technical Report for ACCESS for ELLs Online English Language Proficiency Test Series 403, 2018–2019 Administration

**Annual Technical Report No. 15A** 

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Center for Applied Linguistics

Language Assessment Division Psychometrics and Quantitative Research Team

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# **Executive Summary**

This is the 15th annual technical report on the ACCESS for ELLs English Language Proficiency Test and the fourth report on the ACCESS for ELLs assessment as given in Online format.

This technical report is produced as a service to members and potential members of the WIDA Consortium. The technical information herein is intended for use by those who have technical knowledge of test construction and measurement procedures, as stated in *Standards for Educational and Psychological Testing* (American Educational Research Association, American Psychological Association, & National Council on Measurement in Education, 2014).

ACCESS for ELLs is intended to assess reliably and validly the English language development of English language learners (ELLs) in Grades K–12 according to the WIDA 2012 Amplification of the English Language Development Standards Kindergarten–Grade 12 (WIDA Consortium, 2012). Results on ACCESS for ELLs are used by WIDA Consortium states for monitoring the progress of students, for making decisions about exiting students from language support services, and for accountability. WIDA additionally provides screening instruments for initial identification purposes; however, decision processes on how these are incorporated into identification decisions are at individual states' discretion.

ACCESS for ELLs assesses students in the four domains of Listening, Reading, Writing, and Speaking, as required by federal law (Elementary and Secondary Education Act of 1965, amended 2015; §1111(b)(1)(F); §1111(b)(2)(G)) and provides composite scores as required by the same statute (§3121).

ACCESS for ELLs Online Series 403 was administered in school year 2018–2019 in 34 states, the Bureau of Indian Education, the District of Columbia, the Commonwealth of the Northern Marianas, and the U.S. Virgin Islands for a total of 38 state entities (henceforth "states").

The Series 403 Online data set included the results of 1,541,961 students. The largest grade was Grade 3 with 195,584 students, while the smallest was Grade 12 with 56,193 students. Of the participating WIDA states, the largest was Illinois with 167,716 students, while the smallest was the Bureau of Indian Education with 266 students.

ACCESS for ELLs Series 403 was offered in two administrative formats, an online format (Grades 1–12) and a paper format (Kindergarten–Grade 12). The current report (WIDA ACCESS Technical Report 15A) provides technical information pertaining to ACCESS for ELLs Series 403 Online. A second report (WIDA ACCESS Technical Report 15B) provides technical information for the ACCESS for ELLs Series 403 Paper assessment, including the Kindergarten assessment.

Part 1: Purpose, Design, Implementation

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# **1. Purpose and Design of ACCESS**

# 1.1. Purpose

The overarching purpose of ACCESS for ELLs is to assess the developing English language proficiency of English language learners (ELLs) in Grades K–12 in the United States as defined by the multistate WIDA Consortium, first in the English Language Proficiency Standards (Gottlieb, 2004; WIDA Consortium, 2007) and then in the amplified 2012 English Language Development (ELD) Standards (WIDA Consortium, 2012). The WIDA ELD Standards, which correspond to the academic language identified in state academic content standards, describe six levels of developing English language proficiency and form the core of the WIDA Consortium's approach to instructing and testing ELLs. ACCESS may thus be described as a standards-based English language proficiency test designed to measure the social and academic language proficiency of ELLs in English. It assesses social and instructional English as well as the academic language associated with language arts, mathematics, science, and social studies, within the school context, across the four language domains (Listening, Reading, Writing, and Speaking).

Other major purposes of ACCESS include

- □ Identifying the English language proficiency level of students with respect to the WIDA ELD Standards used in all member states of the WIDA Consortium
- □ Identifying students who have attained English language proficiency
- □ Assessing annual English language proficiency gains using a standards-based assessment instrument
- □ Providing districts with information that will help them to evaluate the effectiveness of their language instructional educational programs and determine staffing requirements
- □ Providing data for meeting federal and state statutory requirements with respect to student assessment
- Providing information that enhances instruction and learning in programs for English language learners

ACCESS for ELLs is offered in two formats: ACCESS Online, described in this report, and ACCESS Paper, described in a companion report.

## 1.2. The WIDA Standards

Five foundational WIDA ELD Standards inform the design, structure, and content of ACCESS for ELLs:

□ *Standard 1*: ELLs communicate in English for **Social and Instructional** purposes within the school setting.

- □ *Standard* 2: ELLs communicate information, ideas, and concepts necessary for academic success in the content area of Language Arts.
- □ *Standard 3*: ELLs communicate information, ideas, and concepts necessary for academic success in the content area of **Mathematics**.
- □ *Standard 4*: ELLs communicate information, ideas, and concepts necessary for academic success in the content area of **Science.**
- □ *Standard 5*: ELLs communicate information, ideas, and concepts necessary for academic success in the content area of **Social Studies.**

For practical purposes, the five Standards are abbreviated as follows in this report:

- □ Social and Instructional Language: SIL
- □ Language of Language Arts: LoLA
- □ Language of Math: LoMA
- □ Language of Science: LoSC
- □ Language of Social Studies: LoSS

Every selected response item and every performance-based task on ACCESS for ELLs targets at least one of these five Standards. In the cases of some test items and tasks, the Standards are combined as follows:

- □ Integrated Social and Instructional Language (SIL), Language of Language Arts (LoLA), and Language of Social Studies (LoSS): IT
- □ Language of Math (LoMA) and Language of Science (LoSC): MS
- □ Language of Language Arts (LoLA) and Language of Social Studies (LoSS): LS

## 1.3. The WIDA Proficiency Levels

The WIDA ELD Standards describe the continuum of language development via five language proficiency levels (PLs) that are fully delineated in the WIDA ELD Standards document (WIDA Consortium, 2012), with scores indicating progression through each level. These levels are *Entering, Emerging, Developing, Expanding*, and *Bridging*. There is also a final stage known as *Reaching,* which is used to describe students who have progressed across the entire WIDA English language proficiency continuum; as this is the end of the continuum, scores do not indicate progression through this level. The proficiency levels are shown graphically in Figure 1.

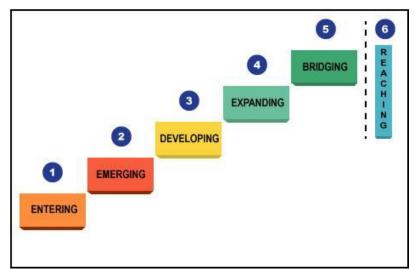


Figure 1. The language proficiency levels of the WIDA ELD Standards.

These language proficiency levels are embedded in the WIDA ELD Standards in a two-pronged fashion.

First, they appear in the **performance definitions**. According to the WIDA ELD Standards, the performance definitions provide a global overview of the stages of the language acquisition process. The performance definitions complement the **model performance indicators** (MPIs; see below) for each language proficiency level. The performance definitions are based on three criteria: (a) vocabulary usage at the word/phrase dimension; (b) language forms and conventions at the sentence dimension; and (c) linguistic complexity at the discourse dimension. Vocabulary usage refers to students' increasing comprehension and production of the technical language required for success in the academic content areas. Language forms and conventions refers to the increasing development of phonological, syntactic, and semantic understanding in receptive skills or control of usage in productive language skills. Linguistic complexity refers to students' demonstration of oral interaction or writing of increasing quantity and variety.

Second, the language proficiency levels of the WIDA ELD Standards are represented through connections to the accompanying MPIs. The MPIs describe the expectations for ELL students in each of the five Standards, by grade-level cluster, across the four language domains. That is, an MPI at each of the five language proficiency levels can be found within each combination of Standard, grade-level cluster, and language domain. *Reaching* (PL 6) represents the end of the continuum rather than another level of language proficiency. The sequence of these five MPIs together describes a logical progression and accumulation of skills on the path from the lowest level of English language proficiency to full English language proficiency for academic success. The grouping of five MPIs in logical progression is called a "strand."

ACCESS for ELLs is based on individual MPIs organized into strands within the WIDA ELD Standards. Each selected-response item or performance-based task on ACCESS for ELLs is

carefully developed, reviewed, piloted, and field tested to ensure that it allows students to demonstrate accomplishment of the targeted MPI.

## 1.4. Language Domains

The WIDA ELD Standards describe developing English language proficiency for each of the four language domains: Listening, Reading, Writing, and Speaking. Thus, ACCESS for ELLs contains four sections, each assessing an individual language domain.

## 1.5. Grade-Level Clusters

The WIDA ELD Standards describe developing English language proficiency within six gradelevel clusters. These are K, 1, 2–3, 4–5, 6–8, and 9–12. Test forms follow this grade-level clustering (note that the Kindergarten [K] form is not administered online and thus is not covered in this report).

# 1.6. Tiers

Tests must be at the appropriate difficulty level for individual test takers in order to be valid and reliable. While the grade-level cluster structure is a design feature intended to ensure that the language expectations are developmentally appropriate for children at different age ranges, it is also important to attend to students' differing levels of language proficiency within each grade-level cluster. As one might expect, test items and tasks that allow Entering (PL 1) or Emerging (PL 2) students to demonstrate accomplishment of the MPIs at their proficiency level will not allow Expanding (PL 4) or Bridging (PL 5) students to demonstrate the full extent of their language proficiency. Likewise, items and tasks that allow Expanding (PL 4) and Bridging (PL 5) students to demonstrate accomplishment of the MPIs at their level would be far too challenging for Entering (PL 1) or Emerging (PL 2) students. Items that are far too easy for test takers may be boring and lead to inattentiveness on the part of students; items that are far too difficult for test takers may be frustrating and discourage them from performing their best. But more importantly, items that are too easy or too hard for a student add very little to the accuracy or quality of the measurement of that student's language proficiency.

ACCESS is designed so that test paths or forms are appropriate to the proficiency level of individual students across the wide range of proficiencies described in the WIDA ELD Standards. In the multi-stage adaptive test, in the domains of Listening and Reading, students are routed to folders which vary in difficulty, designated as A, B, or C level folders. Tier A folders are intended for students at beginning levels of English language proficiency (PLs 1-3), Tier B folders for students at intermediate levels (PLs 2-4), and Tier C folders for students at more advanced proficiency levels (PLs 3-5). In the domain of Writing, the test forms are designated as either Tier A, which includes tasks written to elicit language up to PL 3, or Tier B/C which includes tasks written to elicit language up to PL 5. In the domain of Speaking, test

forms are designed so that students at very beginning levels of proficiency take a pre-A form, which is designed to elicit language at PL 1; students at early levels of proficiency take the Tier A form, with tasks designed to elicit language at PL1 and PL3; and more proficient students take the Tier B/C form, with tasks designed to elicit language at PL3 and PL5.

# 2. Test Development

## 2.1. Test Design

This section describes how ACCESS Online is assembled to ensure that the evidence collected is (a) sufficient to make the intended decisions, and (b) appropriate for the student's level of proficiency. In order to tailor the test closely to student ability levels while still including items and tasks that assess all of the Standards, adaptivity has been built into the test. The Listening and Reading tests both use a multistage adaptive test design. The Writing and Speaking tests are tiered, and placement into the tiers depends on performance on the Listening and Reading tests.

## 2.1.1. Listening

The Listening test uses a multistage adaptive design, as illustrated in Error! Reference source **not found.** All students begin the Listening test with two entry folders (with three items each) at Stage 1 and Stage 2, both targeting Social and Instructional Language (see Section 1.2 for the WIDA ELD Standards). At that point, the student's ability is estimated based on performance on those six items, and that ability estimate is used to determine which of the three leveled Language of Language Arts folders in Stage 3 is administered next. Students whose ability estimate predicts a PL score of 5.0 or higher are routed into the folder at the highest level (C in **Error!** Reference source not found.); students whose ability estimate predicts a PL score of 2.5 or lower are routed into the folder at the lowest level (A in Error! Reference source not found.); all others are routed into the B folder. Throughout the test, a student's underlying measure of ability is re-estimated with the completion of each folder, and the level of the next folder to be administered is chosen accordingly, following the decision rules above. Thus, each student will trace a tailor-made path through the test according to ability level, but the order of the stages is invariant across students. In total, there are eight possible stages, but students whose ability estimate falls below PL 2.5 after the sixth stage end the test at this point. The intent of this design is to ensure coverage of the Standards while delivering a test that closely matches the student's PL, thus minimizing measurement error.

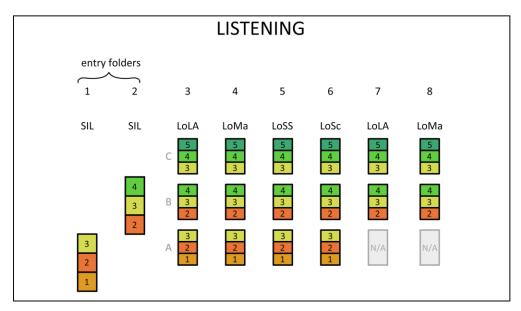


Figure 2. Format of the Listening test.

### 2.1.2. Reading

**Error! Reference source not found.** shows the format of the Reading test. The format and adaptivity are similar to those of the Listening test, but the Reading test consists of 10 stages rather than eight. This reflects the greater weight given to Reading in calculating the composite scores (see Part 2 Chapter 3, "Analyses of Composite Scores"), as well as the view that literacy skills are paramount in developing academic language proficiency. The greater weight afforded to Reading and Writing resulted from a policy decision by the WIDA Board before the first operational administration of ACCESS. Students whose ability estimate falls below PL 2.5 after the eighth stage end the test at this point.

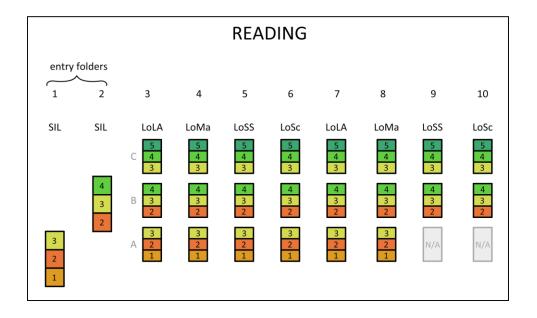
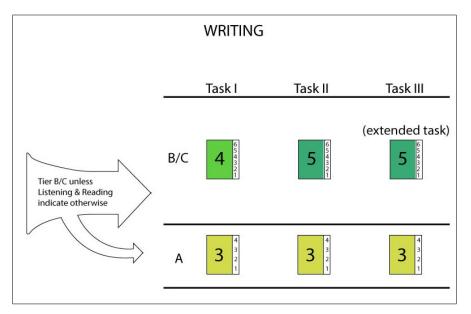


Figure 3. Format of the Reading test.

### 2.1.3. Writing

As shown in **Error! Reference source not found.**, the format of the Writing test is tiered; in the figure, the targeted proficiency level of each task is indicated by the large number in the colored rectangle, while the small numbers on the right of each rectangle indicate the possible proficiency levels that can be demonstrated on the task. Tier A consists of tasks written to elicit language up to PLs 3, while Tier B/C is designed to elicit language up to PL 4 or 5. However, for both tiers of the test, all tasks are scored using the entire breadth of the scoring scale. Therefore, students can theoretically score anywhere from 0 to 9 on any task (in terms of the raw scores in the scoring scale), although the design of some tasks naturally limits the possible scores. For example, Tier A tasks are not designed to elicit extended responses, so although the tasks are scored using the entire scale, these tasks do not elicit language above PL 4. Likewise, although Tier B/C tasks are designed to elicit extended discourse so that students can display proficiency at PL 4, PL 5, or even PL 6, some students will score throughout the proficiency range. With the exception of Grade 1 Tier A, both tiers consist of three tasks. Both tiers include tasks that target a single standard and tasks that integrate more than one WIDA Standard. For example, in the Tier A forms (except for Grade 1), one task integrates the Language of Math and the Language of Science. On the Tier B/C forms, one task integrates the Language of Math and the Language of Science, while another extended task integrates Social Instructional Language, the Language of Language Arts, and the Language of Social Studies. The ways in which the Standards are targeted by these tasks vary across grade levels and are spelled out in the generative item specifications.



*Figure 4*. Format of the Writing test. Note: Grade 1 Tier A follows a different model and has four tasks targeting PLs 1, 2, and 3. Numbers inside the boxes represent the targeted proficiency level of the task;

the smaller numbers on the right edge of each box represent the range of proficiency levels that a task may elicit.

Placement into tiers on the Writing test depends on how students perform on the Listening and Reading tests, which receive computerized scores. To determine how to best place students into a tier, test data for all students who were administered the assessment in the 2015–2016 operational year (the first year of the ACCESS Online assessment) were analyzed to examine the relationship between how students perform on Listening and Reading and how they perform on Writing, using logistic regression analyses. This information was used to program an algorithm into the ACCESS Online test that is used by the computer to determine which tier of the Writing test to administer to each student. The purpose of the algorithm is to place students who are predicted to score above PL 3.0, based on their performances in Listening and Reading, into Tier B/C for Writing. All other students are placed into Tier A.

## 2.1.4. Speaking

**Error! Reference source not found.** shows the format of the Speaking test. The Speaking test includes tasks that target language elicitation at three PLs: 1, 3, or 5. The tasks are grouped into thematic folders, which are aligned to one or two of the WIDA Standards.

As shown in **Error! Reference source not found.**, the Speaking test includes three tiers: Tier Pre-A, Tier A, and Tier B/C. Tier Pre-A includes tasks that target elicitation of language at PL 1. Tier A includes tasks that target elicitation of language at PLs 1 and 3. Tier B/C includes tasks that target elicitation of language at PLs 3 and 5.

A thematic panel refers to the folders across all tiers within a grade-level cluster that relate to a particular WIDA ELD Standard. For example, the Tier B/C, Tier A, and Tier Pre-A folders that address Social and Instructional Language in a given grade cluster make up a single thematic panel. Within a thematic panel, tasks at PL 1 and PL 3 are the same across tiers. For example, within a Social and Instructional Language panel, the same PL 3 task appears on both the Tier A and the Tier B/C forms of the test.

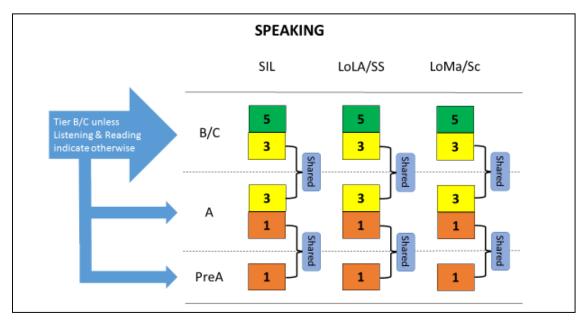


Figure 5. Format of the Speaking test.

As with Writing, placement into the three tiers on the Speaking test shown in **Error! Reference source not found.** depends on performance on the Listening and Reading tests.

Unlike Writing, the Speaking test has one additional tier, Tier Pre-A. Students are placed into Tier Pre-A when their scores on Listening and Reading fall below chance performance. The Speaking Pre-A tier is designed to meet the needs of students in the very early stages of English language development. As noted above, these tasks are targeted to the P1 level and are scored using a modified version of the full Speaking rating scale.

Placement of students into Tiers A and B/C in Writing is analogous to tier placement for Speaking. Test data for all students who were administered the assessment in the 2015–2016 operational year (the first year of the ACCESS Online assessment) were analyzed to examine the relationship between students' performance on Listening and Reading and performance on Speaking, using logistic regression analyses. This information was used to program an algorithm into the ACCESS 2.0 Online test to determine which tier of the Speaking test is administered to each student. The purpose of the algorithm is to place students who are predicted to score above PL 3.0, based on their performances in Listening and Reading, into Tier B/C for Speaking, and to place all other students into Tier A (except for those students, as noted above, who are routed into Tier Pre-A).

## 2.2. Test Development and Field Testing

The ACCESS item development process spans approximately three years, beginning with the development of the refreshment plan and the updating of item specifications. Trained item writers work from these specifications to draft items within a thematic folder. After initial

development, folders are screened at CAL, and those that are approved for further development undergo a rigorous process of internal development and review, including reviews by standards experts and extensive fact checking. During this phase, images and other ancillary materials, such as scripts and directions, are produced.

After items are internally refined, they are reviewed by two panels: a content review panel and a bias and sensitivity review panel. The panels consist of specially trained educators with culturally and linguistically diverse backgrounds from WIDA Consortium states. Items are submitted to the content review panel to ensure that the content is accessible and relevant to students in the targeted grade-level cluster and at the targeted proficiency level and that each item or task matches the MPI from the WIDA ELD Standards that it is intended to assess. The bias and sensitivity review panel ensures that test items are free of material that (1) might favor any subgroup of students over another on the basis on gender, race/ethnicity, home language, religion, culture, region, or socioeconomic status, and (2) might be upsetting to students. Bias and sensitivity panelists are educators with culturally and linguistically diverse backgrounds who have experience interacting with English learners from a range of cultural, regional, religious, linguistic, ethnic, and socioeconomic backgrounds. Based on their recommendations, the items are revised as necessary.

Items that reach this point then go through field testing processes, described by domain below.

### 2.2.1. Listening

Listening items developed for Series 403 were field tested as embedded items during the operational administration of Series 402. The embedded field test items included innovative item formats, including hot spot items, where the student clicks on an area of the screen, and dragand-drop items, where the student drags an image/text to a specified screen area to respond.

For Series 403, a total of 120 Listening items (40 folders) were field tested, across all five gradelevel clusters, embedded into the Series 402 operational assessment. Each student received one Listening field test folder embedded into the operational test. Field test folders are targeted to refresh a specific operational folder on the test, and field test folder specifications include the stage, standard, and tier pool target (A, B, or C) of the folder. Students are administered the embedded field test folder at the stage targeted for refreshment, with administration randomized so that half of the students see the field test folder before the corresponding operational folder, and half see the operational folder before the field test folder. Field test folders are administered to those students who are routed to take the operational folder that is either at the same tier or adjacent to the tier that the field test folder targets. When field test samples are drawn, the sample includes 50% of students at the tier targeted by the field test folder and 50% at adjacent tiers (if there are adjacent tiers both above and below, 25% from each). In cases where the folder to be field tested is to be placed in one of the entry stages, students who receive that field test folder will receive it directly after the pair of operational entry folders. Entry folders do not have a tier pool designation. Field test sample targets in Listening are set at a minimum of 3,000 responses per folder.

After field test data are drawn, folders of items are analyzed for their psychometric properties, and those that meet established psychometric standards are eligible for selection in the next year's operational test.

Table 1 provides numbers of continuing and new items per grade-level cluster. For further detail on item statistics, including a summary of the number of items used as anchors across years, see Part 2 of this report, Sections 2.1 and 2.7.

#### Table 1

Number of New and Continuing Items on ACCESS Online Series 403 Listening, by Grade-Level Cluster

| Grade-level<br>cluster | Number of new<br>items | Number of<br>continuing<br>items | Total number<br>of items |
|------------------------|------------------------|----------------------------------|--------------------------|
| 1                      | 12                     | 42                               | 54                       |
| 2–3                    | 9                      | 45                               | 54                       |
| 4–5                    | 12                     | 42                               | 54                       |
| 6–8                    | 12                     | 42                               | 54                       |
| 9–12                   | 9                      | 45                               | 54                       |

## 2.2.2. Reading

For Series 403, a total of 120 Reading items (40 folders) were field tested, across all five gradelevel clusters, embedded into the Series 402 operational assessment. The embedded Reading field test is administered in the same way as the embedded Listening field test. Each student receives one Reading field test folder embedded into the operational test. Field test folders are targeted to refresh a specific operational folder on the test, and field test folder specifications include the stage, standard, and tier pool target (A, B, or C) of the folder. Students are administered the embedded field test folder at the stage targeted for refreshment, with administration randomized so that half of the students see the field test folder before the corresponding operational folder, and half see the operational folder before the field test folder. Field test folders are administered to those students who are routed to take the operational folder that is either at the same tier or adjacent to the tier that the field test folder targets. When field test samples are drawn, the sample includes 50% of students at the tier targeted by the field test folder and 50% at adjacent tiers (if there are adjacent tiers both above and below, 25% from each). In cases where the folder to be field tested is to be placed in one of the entry stages, students who receive that field test folder will receive it directly after the pair of operational entry folders. Entry folders do not have a tier pool designation. Field test sample targets in Reading are set at a minimum of 3,000 responses per folder.

After field test data are drawn, folders of items are analyzed for their psychometric properties, and those that meet established psychometric standards are eligible for selection in the next year's operational test.

Table 2 provides numbers of continuing and new items, per grade-level cluster. For further detail on item statistics, including a summary of the number of items used as anchors across years, see Part 2 of this report, Sections 2.1 and 2.7.

| Grade-level Number of new cluster items |    | Number of<br>continuing<br>items | Total number<br>of items |
|---|----|----------------------------------|--------------------------|
| 1                                       | 12 | 60                               | 72                       |
| 2–3                                     | 9  | 63                               | 72                       |
| 4–5                                     | 6  | 66                               | 72                       |
| 6–8                                     | 12 | 60                               | 72                       |
| 9–12                                    | 12 | 60                               | 72                       |

#### Table 2

Number of New and Continuing Items on ACCESS Online Series 403 Reading, by Grade-Level Cluster

## 2.2.3. Writing

The development of Writing tasks is similar to that of Listening and Reading items. Writing tasks, however, do not currently undergo large-scale field testing. Instead, after external bias, sensitivity, and content reviews, they are subject to small-scale tryouts, coordinated by CAL staff and conducted by teachers. In these tryouts, candidate folders for Grades 4–12 are administered to students using the online interface, with all students producing a handwritten response; as noted above, students in Grades 1–3 complete the Writing assessment with a traditional paper-and-pencil administration. Student responses, as well as educator observations and comments, inform further revisions to the folders.

Then, a small-scale stand-alone field test of Writing folders is conducted. For Series 403, a total of 18 Writing tasks were field tested. A sample of 500 students per task was targeted. The field test is administered under standard testing conditions. The field test uses the online interface with keyboarded responses for Grades 4–12 and paper booklets with handwritten responses for Grades 1–3. For the Writing field test, DRC raters score the field test samples. A 20% read behind is instituted as a quality control measure, with the first score as the score of record.

Quantitative and qualitative analyses of the collected responses are conducted. The main purposes of this small-scale field testing are (a) to confirm that the tasks are working as intended, (b) to identify anchor samples for rater training, and (c) to inform the rating of the tasks when they become operational. Note that for the stand-alone Series 403 Writing field test, the sample target was not met for all clusters and tiers. Despite not meeting the sample targets, there were sufficient responses to conduct qualitative analyses, review raw score distributions, and provide evidence for the suitability of tasks for operational testing. Series 403 incorporates continuing items from Series 402 as well as items newly developed and field tested for Series 403.

Table 3 provides numbers of continuing and new items, per grade-level cluster. For further detail on item statistics, including a summary of the number of items used as anchors across years, see Part 2 of this report, Sections 2.1 and 2.7.

| Grade-level |      | Number of new | Number of<br>continuing | Total number |
|-------------|------|---------------|-------------------------|--------------|
| cluster     | Tier | items         | items                   | of items     |
| 1           | А    | 0             | 4                       | 4            |
|             | B/C  | 2             | 1                       | 3            |
| 2–3         | А    | 2             | 1                       | 3            |
|             | B/C  | 2             | 1                       | 3            |
| 4–5         | А    | 2             | 1                       | 3            |
|             | B/C  | 2             | 1                       | 3            |
| 6–8         | А    | 2             | 1                       | 3            |
|             | B/C  | 2             | 1                       | 3            |
| 9–12        | А    | 2             | 1                       | 3            |
|             | B/C  | 2             | 1                       | 3            |

### Table 3

Number of New and Continuing Items on ACCESS Online Series 403 Writing, by Grade-Level Cluster

## 2.2.4. Speaking

The development of Speaking tasks is similar to that of Writing tasks, but, as with Listening and Reading, all Speaking tasks undergo large-scale field testing. Speaking tasks undergo both quantitative and qualitative analyses following the field test to determine their appropriateness for inclusion in the following year's operational test.

Speaking tasks in Series 403 include new tasks for Series 403 and continuing tasks from Series 402.

All Tier A and B/C students are administered a Speaking field test folder appended to their operational Speaking assessment. Tier Pre-A is not included in the field test. A total of 60 tasks (20 panels) were field tested for Series 403, with a target sample size of 500 students per folder. Responses were scored by DRC trained raters with a 20% read-behind as a quality control measure, with the first score as the score of record.

For ACCESS Online, folders are designed to target one or two proficiency levels. Tier Pre-A folders include one task that targets only PL 1. Tier A folders include tasks that target PLs 1 and 3, and Tier B/C folders include tasks that target PLs 3 and 5. Students are routed into a tier based on their performance on the Reading and Listening sections of the test. The content is presented entirely on the computer, and the responses are recorded by the test engine and are transmitted to

DRC for scoring. Students receive a Speaking field test folder in the tier that corresponds to their operational tier.

Table 4 provides numbers of continuing and new tasks, per grade-level cluster. For further detail on item statistics, including a summary of the number of tasks used as anchors across years, see Part 2 of this report, Sections 2.1 and 2.7.

#### Table 4

Number of New and Continuing Tasks on ACCESS Online Series 403 Speaking, by Grade-Level Cluster

| Grade-level<br>cluster | Tier  | Number of new<br>tasks | Number of<br>continuing<br>tasks | Total number<br>of tasks |
|------------------------|-------|------------------------|----------------------------------|--------------------------|
| 1                      | Pre-A | 2                      | 1                                | 3                        |
| 1                      | А     | 4                      | 2                                | 6                        |
| 1                      | B/C   | 4                      | 2                                | 6                        |
| 2–3                    | Pre-A | 2                      | 1                                | 3                        |
| 2–3                    | А     | 4                      | 2                                | 6                        |
| 2–3                    | B/C   | 4                      | 2                                | 6                        |
| 4–5                    | Pre-A | 2                      | 1                                | 3                        |
| 4–5                    | А     | 4                      | 2                                | 6                        |
| 4–5                    | B/C   | 4                      | 2                                | 6                        |
| 6–8                    | Pre-A | 2                      | 1                                | 3                        |
| 6–8                    | А     | 4                      | 2                                | 6                        |
| 6–8                    | B/C   | 4                      | 2                                | 6                        |
| 9–12                   | Pre-A | 2                      | 1                                | 3                        |
| 9–12                   | А     | 4                      | 2                                | 6                        |
| 9–12                   | B/C   | 4                      | 2                                | 6                        |

## 2.3. Item and Task Design

This section describes how items and tasks are designed in order to collect the necessary evidence required for the purposes of the assessment. Items and tasks are discussed by language domain.

## 2.3.1. Listening Items

All Listening items include a prerecorded stimulus passage and question stem. Listening items are selected-response items, with one key and two distractors as answer choices. Answer choices are primarily illustrations; for Grades 2–12, items that test listening proficiency at PLs 3–5 may consist of short written text response options that are written to be about two PLs lower than the targeted PL of the Listening item. Most items on the operational Listening assessment are traditional multiple choice, though some operational items and some items embedded for field-testing purposes may involve enhanced item presentations, including hot spot items, where the

student clicks on an area of the screen, and drag-and-drop items, where the student drags an image/text to a specified screen area to respond.

Each item on the Listening test is written to target the language of one of the five WIDA ELD Standards and to test a student's ability to process language at one of the five fully delineated proficiency levels. *Folders* group together three test items that are written around a common theme, with each item targeting a progressively higher proficiency level.

- Tier A folders are constructed to target PLs 1 through 3.
- Tier B folders are constructed to target PLs 2 through 4.
- Tier C folders are constructed to target PLs 3 through 5.

In ACCESS Online Listening, students take a multistage adaptive test form which routes students to Tier A, B, or C folders as appropriate to their ability level.

Listening items are developed so that each item appears on its own screen, with associated graphic support. Scripts containing the item orientation, stimulus, and question stem are audio recorded with professional voice actors and produced by a professional recording studio. Audio playback of test item content is automatic when students advance to the next screen. Listening test content is played one time for students unless the student has a predetermined accommodation allowing for a single repetition of the item stimulus and question stem.

## 2.3.2. Reading Items

Reading items are similar in format to Listening items. The stimulus for Reading items is written text, and answer choices are also primarily written text, though for Grades 1–12 response options for items targeting PLs 1 and 2 may be illustrations rather than text. As with Listening items, Reading items are grouped into thematic folders of three test items each.

- Tier A folders are constructed to target PLs 1 through 3.
- Tier B folders are constructed to target PLs 2 through 4.
- Tier C folders are constructed to target PLs 3 through 5.

In ACCESS Online Reading, students take a multistage adaptive test form which routes them to Tier A, B, or C folders as appropriate to their ability level.

Most items on the operational Reading assessment are traditional multiple choice, though some operational items and some items embedded for field-testing purposes involve enhanced item presentations, including hot spot and drag-and-drop items, where the student either clicks on an area of the screen or drags an image/text to a specified screen area to respond. Items have one key and either two or three distractors, depending upon grade-level cluster and targeted proficiency level. For Grades 1 and 2–3, all items have a key and two distractors. For Grades 4–5, 6–8, and 9–12, items targeting PLs 1 and 2 have a key and two distractors, and items targeting PLs 3, 4, and 5 have a key and three distractors.

### 2.3.3. Writing Tasks

Writing tasks are designed to elicit language corresponding to one or more of the WIDA ELD Standards. Tasks appearing on the Tier A test form are designed to give students the opportunity to produce writing samples that fulfill linguistic expectations up to PL 3. As described in Section 2.1.3. above, these tasks are scored using the entire breadth of the scoring scale, therefore students may achieve proficiency levels higher than PL 3, although the tasks are not designed to elicit extended responses, so the scores are limited by task design. Tasks appearing on the Tier B/C form are designed to give students the opportunity to produce writing samples that fulfill linguistic expectations up to PL 4 or 5. Again, although these tasks are designed to elicit extended responses, they are scored on the entire breadth of the scoring scale, so students' actual performances may extend above or below the PL 4-5 range.

For students in Grades 1–3, the test is not administered via computer. For students in these grades, the test administrator reads from a script and the students respond in a printed test booklet.

For students in Grades 4–12, writing prompts appear on the computer screen. In the spirit of providing maximal support and making every provision to ensure that students are given the opportunity to demonstrate the full extent of their English language proficiency, modeling is sometimes used to make task expectations as clear as possible to students. For example, the first of a series of questions may already be partially completed, or a sentence starter may be provided.

Students in Grades 4–5 provide either handwritten or keyboarded responses, with the default response mode determined in advance at the state or district level. For students in Grades 6–12, keyboarding is the default response mode, with a handwriting option offered as an accommodation.

## 2.3.4. Speaking Tasks

Stimuli on the Speaking test include graphics, audio, and text. All stimuli are presented by a virtual test administrator (VTA). The VTA serves as a narrator who guides students through the test and acts as a virtual interlocutor. The VTA is introduced to students during the test directions in order to establish the testing context.

Task modeling is an essential component of the Speaking test design. In addition to the VTA, students are introduced to a virtual model student during the test directions. Prior to responding to each task, test takers first listen to the model student respond to a parallel task. The purpose of the model is to demonstrate task expectations to both test takers and to DRC raters who score all Speaking task responses.

Students navigate through the Speaking test independently and at their own pace. They must listen to all audio on a screen before the test allows them to advance to the next screen. The

amount and complexity of task input varies by grade-level cluster and task level. The purpose of the input is to provide academic content for students to draw on in their responses.

| Speaking   |              |
|--|--------------|
| Virtual Test<br>Administrator<br>Task input<br>Audio recording buttons | Task graphic |
| Record Stop  |              |

Figure 6 shows the generic screen layout of the Speaking test.

Figure 6. Visualization of the Speaking test screen layout.

Both the VTA and the model student are represented within the testing interface by static images. They are portrayed wearing computer headsets with microphones to reflect the actual testing scenario. Test input and stimuli are presented both aurally and in speech bubbles on the screen. Students respond orally to the tasks, with their responses recorded and transmitted to DRC for later scoring.

All Speaking tasks for a given grade cluster and WIDA Standard are designed in terms of *panels*; a panel is a thematically related set of three tasks, targeting the elicitation of PL 1, PL 3, and PL 5 language. When the tasks are field tested, the panels are split out into folders, with each folder containing one or two tasks. Tier Pre-A folders contain a single task targeting PL 1; Tier A folders contain two tasks targeting PL 1 and PL 3; and Tier C folders contain two tasks targeting PLs 3 and 5. For a given pair of Tier A and Tier C folders based on a single panel, the PL 3 task is identical in both folders.

# **3. Assessment Performance: The Implementation of ACCESS**

## 3.1. Test Delivery

ACCESS Online is administered between December and April of the academic year, with testing windows determined at the state level. The Reading and Listening tests are administered first (in either order), followed by Writing and Speaking (in either order). The test may be administered in several sessions within a single day or over a series of days.

## 3.1.1. Listening and Reading

Listening and Reading are the first domains assessed. Students may take these in either order. Students sit at individual computer monitors and are administered the Listening and Reading tests online. They are issued headsets which are used to listen to directions for the Listening and Reading tests, as well as to the Listening items. Students use the computer interface to select or record their answers.

### 3.1.2. Writing

Writing tasks are delivered on paper to students in Grades 1–3. All students in Grades 1–3 handwrite a response.

Writing tasks are delivered online to students in Grades 4–12. A student may provide handwritten or keyboarded responses, with the choice depending on a combination of local, state, and consortium-wide policies, as follows:

- Grades 4–5: A decision is made at the local or state level as to whether handwriting or keyboarding is the default response mode. In districts where keyboarding is the default, the option exists to use handwriting as an accommodation.
- Grades 6–12: Keyboarding is the default, with the option to use handwriting as an accommodation.

## 3.1.3. Speaking

Speaking tasks are delivered online. Students listen to prompts via headsets that are equipped with microphones to capture their responses. Extensive support is provided to the student through illustrations and multimodal (text and audio) input designed to provide sufficient content for the response, as well as a model student response that is intended to provide guidance regarding the level of linguistic complexity required to respond adequately (see Section 2.1.4).

## 3.2. Scoring Procedures

## 3.2.1. Multiple-Choice Scoring: Listening and Reading

Listening and Reading items are scored dichotomously, as correct or incorrect. Scale scores for each domain are calculated based on the items that are administered to the test taker and the set of those items that the student answers correctly. For details on how scale scores for Listening and Reading are calculated, see Part 2, Chapter 2, "Analysis of Domains."

## 3.2.2. Scoring Performance-Based Tasks: Writing and Speaking

Performance-based tasks in the domains of Writing and Speaking are scored by trained raters. According to documentation from DRC, raters are well-educated professionals, with at least a 4-year college degree in a relevant field and a demonstrated writing ability. Prior to scoring live student responses, the raters undergo thorough training and qualifying. Training is task-specific in order to ensure that raters understand the nuances of each unique Writing or Speaking task. Team leaders, who are selected based on prior performance as raters and for their leadership skills, are assigned to small groups of raters; there are typically ten raters per team. The team leaders are responsible for monitoring the performance of their team members and providing ongoing feedback to support accurate scoring. Scoring directors are promoted from within DRC and earn their positions by demonstrating quality work as raters and as team leaders on previous projects. Scoring directors are responsible for a specific set of tasks within a single domain. The scoring directors train and oversee the teams of raters assigned to these tasks. What follows are general scoring procedures utilized by DRC.

### Rater Training and Qualifying

- Raters are seated at stations and are assigned unique ID numbers and passwords.
- The scoring director provides detailed directions for use of DRC's computerized scoring system.
- The scoring director trains the raters using task-specific anchor sets and training sets.
- Raters must demonstrate scoring proficiency by scoring at least 70% agreement on a qualifying set before scoring live responses.
- Once raters are qualified, they are further trained for their grade-level cluster on the specific tasks for which they will rate responses.
- Once raters have trained, qualified, and begun live scoring, DRC uses calibration sets (of which there are two types, recalibration sets and validation sets, which are explained below) to keep the raters calibrated on the actual tasks they are scoring.

### Calculating Score Agreement for Score Monitoring

• For Writing, agreement is defined as two adjacent scores. (See Section 3.2.3 for a description of the Writing Scoring Scale.) For example, using the Writing Scoring Scale,

scores of 2 and 2+ would be considered agreement, as would scores of 2 and 2 or scores of 2+ and 3. Scores of 2 and 3 on the Writing Scoring Scale would be considered adjacent, and scores of 2 and 3+ would be considered nonadjacent.

• For Speaking, agreement is defined as two scores that are exactly the same. (See Section 3.2.4 for a description of the Speaking Scoring Scale.)

#### Routing Responses to Ensure "Blind" Second Ratings

- The DRC scoring system ensures that responses are routed to qualified raters until the prescribed number of ratings is performed for all responses.
- Raters do not know if they are the first or second rater.

### Monitoring Scoring (Quality Control)

- Ongoing quality control checks and procedures help monitor and maintain the quality of the scoring sessions. At least 20% of the responses are independently scored by two raters for the purpose of monitoring interrater reliability. DRC monitors these datadaily.
- Responses can be retrieved on demand (e.g., specific grade-level clusters, specific students) should the need arise during or after the scoring process.
- If needed, responses can be rescored based on task- or response-level information, such as task number, date, score value assigned, or rater ID.
- For Writing, DRC uses both recalibration and validation sets. For each of the first 5 days that raters score a task, they take one recalibration set of five responses per task. After the raters take the recalibration sets, the scoring director or team leader reviews them using descriptors from the Writing Scoring Scale and the anchor responses to confirm the rationale behind each response's score. Starting on the sixth day of scoring, DRC uses validity sets to monitor rater performance. These are sets of items seeded into the operational sets that, on a daily basis, monitor how raters are doing when compared to the known ratings of the validity sets. The raters do not know which items are operational and which are from a validation set.
- For Speaking, DRC uses recalibration sets. At the start of the scoring window, raters take these sets every day to ensure that they are calibrated, and raters' performances on recalibration sets are used for monitoring purposes. Later in the scoring window, recalibration sets are used on a weekly basis to monitor scoring.

#### Handling Unusual Responses

- Raters can forward responses to team leaders for assistance.
- Responses requiring special attention, including nonscorable responses, are routed to scoring directors for review and resolution.

## 3.2.3. Writing Scoring Scale

The Writing Scoring Scale has six whole score points that range from 1 to 6. For responses that fall in between the whole score points, "plus" score points are available (e.g., a response that falls between 3 and 4 is scored as 3+). The scale descriptors include three different yet interrelated dimensions: discourse, sentence, and word/phrase. These scale descriptors guide raters as they consider all three dimensions in order to make holistic judgments about which score point best suits a response. The dimensions are distinguished as follows:

- The descriptors for the discourse dimension focus on the degree of organization and the extent to which the response is tailored to the context (e.g., purpose, situation, and audience).
- The descriptors for the sentence dimension evaluate the complexity and grammatical accuracy of sentence structures used in the response.
- The descriptors for the word/phrase dimension specify the range and appropriateness of the original vocabulary used (i.e., text other than that copied and adapted from the stimulus and prompt).

When assigning a score, a rater makes an initial judgment about which whole score point (1-6) best describes a response and then determines whether the three descriptors for that whole score point suit that response. If all three descriptors suit the response, a whole score point is awarded. If there is clear evidence that one or two descriptors from an adjacent score point are a better fit, a plus score point between the two applicable whole score points is awarded. In addition to scale descriptors, scoring rules address special cases where responses are nonscorable, completely or partially off task, and completely or partially off topic. Both nonscorable and completely off-task responses are scored as 0. Completely off-topic responses receive a maximum score of 2+. Partially off-topic responses are scored in their entirety, while partially off-task responses are scored by ignoring the off-task portion of the response and scoring only the on-task portion.

To calculate a raw score for the Writing test, raters' scores for each Writing task are converted to whole numbers ranging from 0 to 9, as shown in

Table 5. On Tier A tests, for all grade-level clusters except for Grade 1, the scores from the three tasks are added to calculate a total raw score, which can range from 0 to 27. For the Grade 1 Tier A test, there are four Writing tasks. The first two of these tasks use a modified version of the Scoring Scale and have score ranges of 0-1 and 0-3, respectively. The third and fourth task use the full scoring scale from 0 to 9; additionally, the last task is weighted as 3. Therefore, the possible final raw scores for Grade 1 Tier A range from 0 to 40.

On Tier B/C tests for all grade-level clusters, results from the different tasks are given different weights. These weights are specified to reflect intended amounts of time that a student should spend on each task. The first task is given a weight of 1, the second task is given a weight of 2, and the third task is given a weight of 3. Thus, for example, a student with raw scores of 5, 6, and 7 on the three tasks would have a total raw score of 38 ([1 \* 5] + [2 \* 6] + [3 \* 7]), while a

| Rating to Raw Score Conversion (Writing) |           |  |  |
|--|-----------|--|--|
| Rating                                   | Raw score |  |  |
| Nonscorable                              | 0         |  |  |
| 1  | 1         |  |  |
| 1+                                       | 2         |  |  |
| 2  | 3         |  |  |
| 2+                                       | 4         |  |  |
| 3  | 5         |  |  |
| 3+                                       | 6         |  |  |
| 4  | 7         |  |  |
| 4+                                       | 8         |  |  |
| 5  | 9         |  |  |
| 5+                                       | 9         |  |  |
| 6  | 9         |  |  |

Table 5

student with raw scores of 7, 6, and 5 on the three tasks would have a total raw score of 34 ([1 \* 7] + [2 \* 6] + [3 \* 5]). Raw scores on the Tier B/C tests can range from 0 to 54.

The ACCESS Writing Scoring Scale is distinct from the WIDA Writing Rubric, which is a tool for evaluating student writing in classrooms and for interpreting student scores from ACCESS Online. The Writing Scoring Scale was designed specifically as a scoring tool and is not appropriate for any other purposes.

# 3.2.4. Speaking Scoring Scale

The Speaking Scoring Scale defines five score points: *Exemplary*, *Strong*, *Adequate*, *Attempted*, and *No Response*. (The final score point only applies if the rater uses one of three nonscorable codes: R = dead air or white noise; F = foreign language response; I = nonscorable utterance.) These score points are applied based on the proficiency level expectations of each task, that is, the level of language proficiency that each task is designed to elicit. These expectations are exemplified by the model student response (see Section 2.1.4). In this way, the model response serves as a scoring benchmark. Raters listen to the model response and score test taker responses relative to the model. A score of *Exemplary* means that the student response demonstrates English language use that is equal to or beyond the English language use illustrated by the model student's response.

The Speaking Scoring Scale includes descriptors for overall language use, response sophistication, language delivery, and word choice. As stated above, the scale is applied relative to the proficiency level demands of the task. For tasks targeting language elicitation at PL 1, there are only three possible score points: *No Response, Attempted*, and *Adequate and Above*.

This is the case because appropriate responses to PL 1 tasks are single words and short chunks of language, so it is not possible to reliably distinguish between *Adequate*, *Strong*, and *Exemplary* performances.

To calculate a raw score for the Speaking test, the five score points are converted to whole numbers, as shown in

Table 6. To calculate a total raw score, the raw scores for each task are added together; additionally, in Tier B/C, six points are added to the total raw score, representing a score of *Adequate and Above* for three tasks targeting language at PL 1. Though a Tier B/C student would not be administered any tasks targeting the PL 1 level, it is assumed that a score of *Adequate and Above* would be applicable to such tasks. Thus, on the Pre-A test, scores can range from 0 to 6; on the A test, from 0 to 18; and on the B/C test, from 6 to 30.

Table 6

| Rating to Raw Score Conversion (Speaking) |           |  |
|---|-----------|--|
| Rating                                    | Raw score |  |
| No Response (R, F, or I)*                 | 0         |  |
| Attempted                                 | 1         |  |
| Adequate/Adequate and Above               | 2         |  |
| Strong                                    | 3         |  |
| Exemplary                                 | 4         |  |

R = Dead air or white noise; F = Foreign language response; I = Nonscorable utterance.

Speaking tasks are scored using the ACCESS Speaking Scoring Scale. The Speaking Scoring Scale is distinct from the WIDA Speaking Rubric, which is a tool for classroom use and score interpretation. The Speaking Scoring Scale was designed specifically for test scoring use and is not intended for classroom purposes.

## 3.3. Operational Administration

## 3.3.1. Administering the Test Practice

The administration of the test practice for an individual test domain takes approximately 5–10 minutes, depending on how many questions students have about the directions or practice items. Additional time should be scheduled for students to go through the test practice again if needed. The narration within the test practice is included both as spoken audio and as text captioning displayed directly on the screen, allowing the student to be able to read along as the script is read aloud.

## 3.3.2. Listening Test Administration

The Listening test (including test practice items) is designed to take approximately 30–40 minutes. Note that the approximate test administration time does not include convening students, taking attendance, or explaining test directions.

## 3.3.3. Reading Test Administration

The Reading test (including directions and practice items) is designed to take approximately 35 minutes. Note that the approximate test administration time does not include convening students, taking attendance, or explaining test directions.

### 3.3.3.1. Reading Test Item Types

The Reading test may include three different item types: multiple choice, hotspot, and drag and drop. Although a student may not see all three of these item types, it is important to ensure that students know what to do for these different item types.

- Multiple choice. Students choose an answer from a set of ordered response options under the question. The response options may be images or text. Students select their answer by clicking anywhere within the box that denotes the response options, including inside the circle that appears to the left of the text or image. Students are able to change their answer by clicking on a different response option.
- Hotspot. Students see a large response area under the question. The response area may be an image, a paragraph of text, or some combination of images and text, such as a timeline, a webpage. The answer choices may be pictures or text and are embedded in the response area inside blue boxes. Students answer the question by clicking on one of the boxes in the response area. Each answer choice changes color when selected. Students are able to change their answers by clicking on a different blue box or by clicking on the reset eraser button, which clears the original response and clicking on a different blue box.
- Drag and drop. There are two examples of this item type. Students see one object, either a small image or a line of text, above the response area, which may be an image, a paragraph of text, or some combination of images and text, such as a timeline, a webpage, etc. The response area has three or four blue boxes in it. To show their answer, students click and drag/move the small object into a blue box within the response area. Students do not have to place the object exactly in the blue box; the object snaps into place when students release the mouse button. In this type of drag and drop item, students are able to change their answer by dragging their object into a different blue box in the response, and then dragging the object into a different blue box in the response area. Alternatively,

students may see three small objects above the response area. In this case, students select one object to drag into the single blue box within the response area.

## 3.3.4. Writing Test Administration

All students in Grades 1–3 complete the ACCESS for ELLs Writing test on paper. The test is group administered. For Grades 6–12, all students view the Writing prompts on the desktop, laptop, or tablet. The default response mode is keyboarding. For Grades 4–5, all students also view the Writing prompts on the device. However, each state determines whether the default response mode for students in Grades 4–5 will be keyboarding or handwriting. If keyboarding is the default response mode, and upon logging in and starting the test a student expresses discomfort, concern, or anxiety about keyboarding, administrators may switch the student to responding to the Writing test on paper.

The Writing test is designed to take approximately 45–60 minutes. For all grade-level clusters, the Tier B/C Writing tests have recommended timing guidelines for Parts A, B, and C of 10, 20, and 30 minutes, respectively. Note that the approximate test administration time does not include convening students, taking attendance, distributing and collecting test materials, or explaining test directions, including the directions and practice that precede the test.

### 3.3.4.1. Writing Test Tiers

Student performance on the Listening and Reading tests determines the appropriate tier that the student will take in the Writing and Speaking tests. Once the students have completed the Listening and Reading tests, test coordinators run a Tier Placement Report that identifies the tier each student is assigned to take. Test administrators use the report to know which form to administer to which student. The Writing test has two tiers: A and B/C. In Grades 1–3, students must be tested in groups organized by grade-level cluster and tier.

## 3.3.5. Speaking Test Administration

The Speaking test (including directions and practice) is designed to take approximately 30 minutes. Note that the approximate test administration time does not include convening students, taking attendance, or explaining test directions.

Recording response time on every task on the Speaking test has a preset time limit, which varies depending on the grade-level cluster, tier, and task level. Students learn about the time limits in the test directions and practice. Students see a circle change color and then disappear as the time to respond elapses. While there is a limit to how long students can take to record their response, students can navigate the directions, practice, and test items at their own pace. Students click the Next button when they are ready to move on from a screen, without time limits. The test does not advance automatically.

### 3.3.5.1. Speaking Test Tiers

For each grade-level cluster, the Speaking test has three different tiered forms, Pre-A, A, and B/C. The tier the student takes is determined by the student's Listening and Reading test results and automatically loads for the student upon logging into the test platform with test ticket information. The Pre-A tier is designed to address the needs of newcomer students and to allow those students at the beginning stages of English language development an opportunity to respond to tasks appropriate to what they are able to do. Tier Pre-A also includes a simplified version of the Speaking test practice to ease the burden of learning how to respond to Speaking tasks on the screen for newcomer students. The majority of students are placed in either Tier A or Tier B/C.

### 3.3.5.2. Group vs. Individual Delivery

The Speaking test is administered to small groups of students. For students in all grade-level clusters taking the Tier A and Tier B/C forms, it is recommended that the Speaking test be administered to groups of 3 to 5 students.

It is recommended that students taking the Pre-A form be administered the test individually so test administrators can provide additional support during the test. For students in all tiers, the Speaking test may be administered individually or in smaller groups of students than mentioned above if needed. Test administrators use their professional judgment to consider whether students with high test anxiety or students requiring extra support should be given the test individually or in a very small group.

### 3.3.6. Test Security

Every effort is made to keep the test secure at all levels of development and administration. WIDA, CAL, and DRC (the entity responsible for printing, distributing, collecting, and scoring the printed tests) follow established policies and procedures regarding the security of the test, and every individual involved in the administration of ACCESS, from the district level to the classroom level, is trained in issues of test security.

All materials for ACCESS for ELLs are considered secure test materials. All users of the WIDA website are prompted to read and sign a Non-Disclosure and User Agreement (NDUA) upon their first login. Use of the WIDA Assessment Management System (WIDA AMS) and INSIGHT test engine are also subject to the terms of use outlined in WIDA AMS. Users are prompted to agree with the test security policy upon their first login. The security of all test materials must be maintained before, during, and after the test administration. Under no circumstances are students permitted to handle secure materials before or after test administration. Test materials should never be left unsecured. The test coordinator should track each secure booklet on the ACCESS for ELLs Security Checklist. Individuals are responsible for the secure documents assigned to them. Secure documents should never be destroyed (e.g., shredded, thrown in the trash) except for soiled documents, which must be destroyed in a secure

manner. District and school personnel carrying out their roles in the delivery of this assessment must follow ACCESS for ELLs District and School Test Coordinator Manual guidelines to maintain test security.

## 3.4. Procedures for Including Students with Disabilities

The WIDA Accessibility and Accommodations Framework provides support for all ELLs, as well as targeted accommodations for students with individualized education plans (IEP) or 504 plans. These supports are intended to increase the accessibility for the assessments for all ELLs. (Please see Accessibility and Accommodations Supplement for detailed information.)

## 3.4.1. Support Provided to All ELLs

**Universal design.** ACCESS for ELLs incorporates universal design principles in order to provide greater accessibility for all ELLs. The test items are presented using multiple modalities, including supporting prompts with appropriate animations and graphics, embedded scaffolding, tasks broken into chunks, and modeling that uses task prototypes and guides.

Administrative considerations include adaptive and specialized equipment or furniture, alternative microphone, familiar test administrator, frequent or additional supervised breaks, individual or small group setting, monitoring of the placement of responses in the test booklet or on screen, participation in different testing formats (Paper vs Online), reading aloud to self, specific seating, short segments, verbal praise or tangible reinforcement for on-task or appropriate behavior, and verbal redirection of students' attention to the test (in English or native language).

**Universal tools** are available to all students taking ACCESS for ELLs in order to address their individual accessibility needs. These may either be embedded in the online test or provided by test administrators during testing. Universal tools do not affect the construct being measured on the assessment.

## 3.4.2. Support Provided to ELLs with IEP or 504 Plans

Accommodations include allowable changes to the test presentation, response method, timing, and setting in which assessments are administered. Accommodations are intended to provide testing conditions that do not result in changes in what the test measures; that provide comparable test results to those of students who do not receive accommodations; and that do not affect the validity and reliability of the interpretation of the scores for their intended purposes. Accommodations are available only to ELLs with disabilities when listed in an approved IEP or 504 plan, and only when the student requires the accommodation(s) to participate in ACCESS for ELLs meaningfully and appropriately. Accommodations are delivered locally by a test administrator.

Accessibility features include tools that are available to all ELLs taking ACCESS for ELLs. Examples of accessibility features include highlighter, line guide, magnification, and color overlay. All accessibility features are available to all ELLs during testing; specific designation is not required prior to testing to make them available to the student during testing. Features available during online-based test administration include the following:

- Audio amplification device (provided by student)
- Highlight tool
- Line guide
- Zoom tool (magnifier)
- Sticky notes—which allow students to take notes to prepare responses to Writing items. This tool is only available in the Writing domain
- Color overlay—which allows students to change the background color that appears behind text, graphics, and response areas. Five colors are available: pink, yellow, blue, green, and orange.
- Color contrast—which allows students to select from a variety of background/text color combinations
- Keyboard shortcuts/equivalents—which are alternatives to using a mouse (for navigating through the test and using online test tools)
- Scratch/blank paper (to be submitted with the test or disposed of according to state policy)

Allowable test administration procedures are variations in standard test administration procedures that provide flexibility to schools and districts in determining the conditions under which ACCESS for ELLs can be administered most effectively. These procedures are available to any student, as needed, at the discretion of the test coordinator (or principal or designee), provided that all security conditions and staffing requirements are met. Examples of allowable test administration procedures include tests administered by familiar school personnel, in an individual or small group setting, in a separate room, with frequent supervised breaks, or in short segments. For detailed information on the allowable test administration procedures, consult the ACCESS for ELLs Test Administration Manual.

Schools and districts should consider how accessibility features and allowable test administration procedures can support accessibility to the test for *all* ELLs. The accommodations, accessibility features, and allowable test administration procedures are based on (1) accepted practices in ELP assessment; (2) existing accommodation policies of WIDA Consortium member states; (3) consultation with representatives of WIDA member states who are experts in the education and assessment of ELLs and students with disabilities; and (4) the expertise of the test developers at the Center for Applied Linguistics.

WIDA also offers *Alternate ACCESS for ELLs*. This test is intended only for those ELLs who have cognitive disabilities that are so significant as to prevent meaningful participation in

ACCESS testing, even with accommodations. The results of the Alternate ACCESS for ELLs operational administration appear in a separate technical report.

## 4. Summary of Score Reports

## 4.1. Individual Student Report

The Individual Student Report contains detailed information about the performance of a single student within Grades K–12. Its primary users are students, parents/guardians, teachers, and school teams. It describes one indicator of a student's English language proficiency, the language needed to access content and succeed in school.

In the score report, there are four domain and four composite scores. Each composite score is represented by a label, a breakdown of how individual domains are used to calculate it, and a visual display of the results.

The proficiency level is presented both graphically and as a whole number followed by a decimal. The shaded bar of the graph reflects the exact position of the student's performance on the six-point ELP scale. The whole number reflects a student's ELP level (1–Entering, 2– Emerging, 3–Developing, 4–Expanding, 5–Bridging, and 6–Reaching) in accord with the WIDA ELD Standards. ELLs who attain Level 6, Reaching, have moved through the entire second language continuum, as defined by the test and the WIDA ELD Standards.

The decimal indicates the proportion within the proficiency level range that the student's scale score represents, rounded to the nearest tenth. For example, a proficiency level score of 3.5 is halfway between the 3.0 and 4.0 cut scores.

To the right of the proficiency level is the reported scale score and associated confidence band. The confidence band reflects the standard error of measurement of the scale score, a statistical calculation of a student's likelihood of scoring within a particular range of scores if he or she were to take the same test repeatedly without any change in ability.

If a student does not complete one or more language domains, NA (not available) is inserted in that language domain as well as all applicable composite scores, including the Overall score. Students with identical Overall scores may have very different profiles in terms of their oral language and literacy development.

The Individual Student Report also provides information about the proficiency levels as whole numbers obtained by the student and describes what many students at the reported proficiency level may be expected to be able to do in English. For example, if the student received a proficiency level score of 2 for Speaking, the report will include a description of the type of spoken language the student may be expected to be able to produce. Figure 7 shows a sample Individual Student Report.



ACCESS for ELLs 2.0° English Language Proficiency Test

#### Sample Student

#### Individual Student Report 20XX

This report provides information about the student's scores on the ACCESS for ELLs 2.0 English language proficiency test. This test is based on the WIDA English Language Development Standards and is used to measure students' progress in learning English. Scores are reported as Language Proficiency Levels and as Scale Scores.

| Language Domain   | Proficiency Level           (Possible1.0-6.0)           1         2         3         4         5         6           1         1         1         1         1         1 | Scale Score (Possible100-600) and Confidence Band<br>See Interpretive Guide for Score Reports for definitions<br>100 200 300 400 500 600 |
|---|---|--|
| Listening   | 4.0   | 368  |
| Speaking  | 2.2   | 320  |
| Reading   | 3.4   | 356  |
| Writing   | 3.5   | 355  |
| Oral Language<br>50% Listening + 50% Speaking                           | 3.2   | 344  |
| Literacy<br>50% Reading + 50% Writing                                   | 3.5   | 356  |
| Comprehension<br>70% Reading + 30% Listening                            | 3.7   | 360<br>[   |
| Overall*<br>35% Reading + 35% Writing +<br>15% Listening + 15% Speaking | 3.4   | 352  |

\*Overall score is calculated only when all four domains have been assessed. NA: Not available

| Domain    | Proficiency<br>Level | Students at this level generally can  |  |  |  |  |
|-----------|----------------------|---|--|--|--|--|
| Listening | 4                    | understand oral language in English related to specific topi<br>• Exchange information and ideas with others<br>• Connect people and events based on oral information   | <ul> <li>ics in school and can participate in class discussions, for example:</li> <li>Apply key information about processes or concepts presented orally</li> <li>Identify positions or points of view on issues in oral discussions</li> </ul> |  |  |  |
| Speaking  | 2                    | communicate ideas and information orally in English using<br>phrases, for example:<br>• Share about what, when, or where something happened<br>• Compare objects, people, pictures, events                    | language that contains short sentences and everyday words and <ul> <li>Describe steps in cycles or processes</li> <li>Express opinions</li> </ul>  |  |  |  |
| Reading   | 3                    | understand written language related to common topics in<br>• Classify main ideas and examples in written information<br>• Identify main information that tells who, what, when or<br>where something happened | school and can participate in class discussions, for example:<br>• Identify steps in written processes and procedures<br>• Recognize language related to claims and supporting evidence  |  |  |  |
| Writing   | 3                    | communicate in writing in English using language related t<br>• Describe familiar issues and events<br>• Create stories or short narratives   | to common topics in school, for example:<br>• Describe processes and procedures with some details<br>• Give opinions with reasons in a few short sentences   |  |  |  |

Figure 7. Individual Student Report.

When interpreting scores, the following points should be kept in mind:

- The report provides information on English proficiency. It does not provide information on a student's academic achievement or knowledge of content areas.
- Students do not typically acquire proficiency in Listening, Speaking, Reading, and Writing at the same pace. Generally,
  - Oral language (L+S) is acquired faster than literacy (R+W).
  - Receptive language (L+R) is acquired faster than productive language (S+W).
  - Writing is usually the last domain to be mastered.
- The students' foundation in their home or primary language is a predictor of their English language development. Those who have strong literacy backgrounds in their native language will most likely acquire literacy in English at a quicker pace than students who do not.
- The Overall score is helpful as a summary of other scores and is used because a single number may be needed for reference. However, it is important to remember that it is compensatory; a particularly high score in one domain may effectively raise a low score in another. Similar overall scores can mask very different performances on the test.
- No single score or language proficiency level, including the Overall score (composite), should be used as the sole determiner for making decisions regarding a student's English language proficiency. School work and local assessment throughout the school year also provide evidence of a student's English language development.
- Scale scores from different domains should not be compared. Each domain has its own scale, so scale scores should not be compared, such as comparing Listening to Reading. Proficiency level scores can be used for such comparisons.
- To compare test scores from different years, either scale scores or proficiency level scores can be used, although it is easier to see changes when examining scale scores.

For detailed information about score reports, please refer to the Interpretive Guide.

## 4.2. Other Reports

**Student Roster Report.** The Student Roster Report contains information on a group of students within a single school and grade. It provides scale scores for individual students in each language domain and composite, identical to those in the Individual Student Report. Its intended users are teachers, program coordinators/directors, and administrators.

**Frequency Reports.** The primary audience for frequency reports is typically program coordinators/directors, administrators, and boards of education. There are three types of frequency reports:

- School Frequency Report
- District Frequency Report
- State Frequency Report

They all show the number and percentage of tested students who attain each proficiency level within a given population.

Part 2: Technical Results

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| Comprehension                         |   |
| Overall                               |   |
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|                                       | Literacy<br>Comprehension<br>Overall<br>ncy Level Distribution for Composites |

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## **1. Student Participation and Performance**

This section of the report provides an overview of students' participation, the distribution of students' scale scores, and the distribution of students' proficiency levels. Results are presented, where appropriate, by grade-level cluster, grade, and tier (for Writing and Speaking), and also by state, by gender, and by race and ethnicity.

Following the approach of the Census Bureau, ethnicity is a binary category (Hispanic or non-Hispanic), with five categories for race (American Indian/Alaskan Native, Asian, Black/African American, Pacific Islander/Hawaiian, and White) that are not mutually exclusive. Thus, for example, Student A may be labeled as Hispanic for ethnicity and Asian for race, while Student B may be labeled as non-Hispanic for ethnicity and both American Indian/Alaskan Native and Black/African American for race. Students who are labeled as Hispanic are included in the Hispanic (of any race) category, regardless of how many racial categories they are included in. Students who are identified in one racial category (e.g., Asian) who have not been identified as Hispanic are identified in only one racial category; if they are identified in more than one racial category and have not been identified as Hispanic, they are labeled non-Hispanic multiracial.

There is a subset of students who are included in the descriptions of student participation and performance but are excluded from subsequent analyses, namely, students who were flagged as potentially having experienced test interruptions. Using telemetry data, three variables were selected that might potentially indicate interruption (that is, testing experiences that are outside of regular testing experiences). The interruption indicators WIDA used are (1) longer than expected testing time, (2) number of appearances (i.e., more than 1) of test items, and (3) number of log-ins. Records are flagged if they fall outside of established criteria for any of these three indicators. Students whose records are flagged as interrupted are included in the tables that describe participation in the assessment but are excluded from all subsequent analyses. Table 1.1 summarizes the numbers of students who are excluded from these analyses.

1-1

#### Table 1.1

Students Excluded from Analysis due to Test Interruptions by Domain and Cluster

| Domain    | Domain Cluster |         | Percent |  |
|-----------|----------------|---------|---------|--|
|           | 1              | 8,568   | 10.17%  |  |
|           | 2–3            | 17,706  | 21.02%  |  |
|           | 4–5            | 16,164  | 19.19%  |  |
| Listening | 6-8            | 20,052  | 23.80%  |  |
|           | 9–12           | 21,745  | 25.81%  |  |
|           | Total          | 84,235  | 100.00% |  |
|           | 1              | 6,215   | 6.98%   |  |
|           | 2–3            | 16,906  | 18.99%  |  |
|           | 4–5            | 20,378  | 22.89%  |  |
| Reading   | 6–8            | 19,862  | 22.31%  |  |
|           | 9–12           | 25,661  | 28.83%  |  |
|           | Total          | 89,022  | 100.00% |  |
|           | 1              | 0       | 0.00%   |  |
|           | 2–3            | 0       | 0.00%   |  |
|           | 4–5            | 32,893  | 35.85%  |  |
| Writing   | 6–8            | 29,046  | 31.66%  |  |
|           | 9–12           | 29,813  | 32.49%  |  |
|           | Total          | 91,752  | 100.00% |  |
|           | 1              | 12,186  | 11.12%  |  |
|           | 2–3            | 24,556  | 22.41%  |  |
|           | 4–5            | 25,486  | 23.25%  |  |
| Speaking  | 6–8            | 23,084  | 21.06%  |  |
|           | 9–12           | 24,288  | 22.16%  |  |
|           | Total          | 109,600 | 100.00% |  |

### 1.1. Participation

Participation in ACCESS Online is shown in three ways: by grade-level cluster, by grade, and, for Writing and Speaking only, by tier.

### 1.1.1. Grade-Level Cluster

Table 1.1.1.1 shows participation across the 38 WIDA states and U.S. territories that participated in the ACCESS Online operational testing program in 2018–2019 by grade-level cluster. The 38 rows show the number of students in that grade-level cluster who took the test by state, and the final row shows the total number of participants across all 38 states and U.S. territories.

Table 1.1.1.2 shows participation by grade-level cluster by gender across all 38 states and U.S. territories combined, while Table 1.1.1.3 shows participation by grade-level cluster by ethnicity across all 38 states and U.S. territories.

Table 1.1.1.4 shows participation by grade-level cluster and tier for all Writing and Speaking forms.

#### Table 1.1.1.1

|       | Cluster |         |         |         |         |           |
|-------|---------|---------|---------|---------|---------|-----------|
| State | 1       | 2–3     | 4–5     | 6-8     | 9–12    | Total     |
| AK    | 1,148   | 2,482   | 2,589   | 2,685   | 2,530   | 11,434    |
| AL    | 3,758   | 7,154   | 6,017   | 4,091   | 4,179   | 25,199    |
| BI    | 153     | 312     | 374     | 538     | 233     | 1,610     |
| СО    | 9,826   | 20,699  | 17,355  | 18,292  | 17,801  | 83,973    |
| DC    | 1,062   | 1,904   | 1,460   | 1,152   | 1,526   | 7,104     |
| DE    | 1,718   | 3,468   | 3,026   | 1,892   | 1,930   | 12,034    |
| GA    | 14,470  | 28,081  | 23,923  | 17,087  | 16,371  | 99,932    |
| HI    | 1,977   | 3,941   | 3,203   | 2,817   | 2,932   | 14,870    |
| ID    | 2,179   | 4,839   | 3,532   | 3,562   | 2,857   | 16,969    |
| IL    | 17,374  | 43,738  | 44,395  | 33,149  | 29,060  | 167,716   |
| IN    | 7,572   | 15,226  | 12,939  | 9,290   | 12,441  | 57,468    |
| KY    | 3,267   | 6,673   | 4,975   | 4,213   | 5,433   | 24,561    |
| MA    | 11,160  | 20,490  | 15,600  | 15,930  | 18,647  | 81,827    |
| MD    | 10,139  | 19,953  | 15,488  | 12,252  | 16,312  | 74,144    |
| ME    | 488     | 955     | 846     | 959     | 1,061   | 4,309     |
| MI    | 9,051   | 19,651  | 17,177  | 19,542  | 22,858  | 88,279    |
| MN    | 8,026   | 15,770  | 12,822  | 11,939  | 13,195  | 61,752    |
| MO    | 4,146   | 7,944   | 6,255   | 5,700   | 5,271   | 29,316    |
| MP    | 95      | 218     | 192     | 432     | 423     | 1,360     |
| MT    | 243     | 534     | 787     | 765     | 494     | 2,823     |
| NC    | 12,458  | 25,940  | 25,526  | 17,395  | 19,966  | 101,285   |
| ND    | 440     | 787     | 692     | 643     | 834     | 3,396     |
| NH    | 469     | 1,026   | 939     | 932     | 1,016   | 4,382     |
| NJ    | 11,705  | 19,691  | 13,498  | 12,973  | 17,909  | 75,776    |
| NM    | 4,524   | 9,795   | 10,594  | 10,597  | 10,672  | 46,182    |
| NV    | 6,753   | 15,120  | 13,524  | 13,928  | 15,366  | 64,691    |
| OK    | 6,332   | 12,723  | 10,520  | 7,918   | 7,943   | 45,436    |
| PA    | 5,754   | 12,777  | 11,661  | 13,463  | 15,946  | 59,601    |
| RI    | 1,252   | 2,840   | 2,610   | 2,587   | 3,346   | 12,635    |
| SC    | 2,593   | 6,287   | 6,212   | 7,036   | 8,121   | 30,249    |
| SD    | 659     | 1,278   | 1,114   | 851     | 1,001   | 4,903     |
| TN    | 5,759   | 10,488  | 8,105   | 7,791   | 8,493   | 40,636    |
| UT    | 4,968   | 11,185  | 11,225  | 9,254   | 7,982   | 44,614    |
| VA    | 12,087  | 24,241  | 18,447  | 14,910  | 19,333  | 89,018    |
| VI    | 33      | 42      | 54      | 66      | 71      | 266       |
| VT    | 208     | 392     | 323     | 247     | 340     | 1,510     |
| WI    | 5,677   | 11,348  | 10,892  | 10,862  | 9,595   | 48,374    |
| WY    | 287     | 666     | 463     | 423     | 488     | 2,327     |
| Total | 189,810 | 390,658 | 339,354 | 298,163 | 323,976 | 1,541,961 |

Participation by Cluster by State, S403 Online

### Table 1.1.1.2

|         |                  |         | Gender  |         |           |
|---------|------------------|---------|---------|---------|-----------|
| Cluster |                  | F       | Μ       | Missing | Total     |
|         | Count            | 88,567  | 99,927  | 1,316   | 189,810   |
| 1       | % within Cluster | 46.7%   | 52.6%   | 0.7%    | 100.0%    |
| • •     | Count            | 182,013 | 206,395 | 2,250   | 390,658   |
| 2–3     | % within Cluster | 46.6%   | 52.8%   | 0.6%    | 100.0%    |
| 4.5     | Count            | 153,692 | 183,553 | 2,109   | 339,354   |
| 4–5     | % within Cluster | 45.3%   | 54.1%   | 0.6%    | 100.0%    |
| 6–8     | Count            | 128,731 | 167,102 | 2,330   | 298,163   |
|         | % within Cluster | 43.2%   | 56.0%   | 0.8%    | 100.0%    |
| 0.12    | Count            | 140,030 | 180,610 | 3,336   | 323,976   |
| 9–12    | % within Cluster | 43.2%   | 55.7%   | 1.0%    | 100.0%    |
| Tatal   | Count            | 693,033 | 837,587 | 11,341  | 1,541,961 |
| Total - | % within Cluster | 44.9%   | 54.3%   | 0.7%    | 100.0%    |

|         |                  | Hispa    | lispanic |         |           |
|---------|------------------|----------|----------|---------|-----------|
| Cluster |                  | Hispanic | Other    | Unknown | Total     |
| 1       | Count            | 117,646  | 60,825   | 11,339  | 189,810   |
| 1       | % within Cluster | 62.0%    | 32.0%    | 6.0%    | 100.0%    |
|         | Count            | 251,337  | 115,929  | 23,392  | 390,658   |
| 2–3     | % within Cluster | 64.3%    | 29.7%    | 6.0%    | 100.0%    |
| 4-5     | Count            | 226,260  | 88,231   | 24,863  | 339,354   |
|         | % within Cluster | 66.7%    | 26.0%    | 7.3%    | 100.0%    |
| ( )     | Count            | 191,629  | 78,478   | 28,056  | 298,163   |
| 6–8     | % within Cluster | 64.3%    | 26.3%    | 9.4%    | 100.0%    |
| 0.12    | Count            | 201,159  | 91,756   | 31,061  | 323,976   |
| 9–12    | % within Cluster | 62.1%    | 28.3%    | 9.6%    | 100.0%    |
|         | Count            | 988,031  | 435,219  | 118,711 | 1,541,961 |
| Total   | % within Cluster | 64.1%    | 28.2%    | 7.7%    | 100.0%    |

**Table 1.1.1.3**Participation by Cluster by Ethnicity, S403 Online

#### Table 1.1.1.4

| Participation by Cluster by | Tier by Domain, S403 Online |
|-----------------------------|-----------------------------|
|-----------------------------|-----------------------------|

|                      |      |       | Dor     | nain     |
|----------------------|------|-------|---------|----------|
| Cluster              |      |       | Writing | Speaking |
|                      |      | Pre-A | -       | 5,271    |
| 1                    | Tier | А     | 154,669 | 64,971   |
| 1                    |      | BC    | 35,116  | 119,567  |
|                      | То   | tal   | 189,785 | 189,809  |
|                      |      | Pre-A | -       | 16,757   |
| 2–3                  | Tier | А     | 93,720  | 83,643   |
| 2-3                  |      | BC    | 296,872 | 290,246  |
|                      | То   | tal   | 390,592 | 390,646  |
|                      |      | Pre-A | -       | 6,176    |
| 4–5                  | Tier | А     | 47,718  | 29,919   |
| 4–3                  |      | BC    | 291,618 | 303,246  |
|                      | То   | tal   | 339,336 | 339,341  |
|                      |      | Pre-A | -       | 11,773   |
| 6–8                  | Tier | А     | 109,741 | 61,672   |
| 0-0                  |      | BC    | 188,416 | 224,711  |
|                      | То   | tal   | 298,157 | 298,156  |
|                      |      | Pre-A | -       | 23,732   |
| 9–12                 | Tier | А     | 119,084 | 132,058  |
| <i>7</i> -1 <i>2</i> |      | BC    | 204,865 | 168,166  |
|                      | То   | tal   | 323,949 | 323,956  |

### 1.1.2. Grade

This section provides tables parallel to those in the previous section, but broken out by grade rather than by grade-level cluster.

#### Table 1.1.2.1

|       |         |         |         |         |         | Grad    | e      |        |         |        |        |        |           |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|---------|--------|--------|--------|-----------|
| State | 1       | 2       | 3       | 4       | 5       | 6       | 7      | 8      | 9       | 10     | 11     | 12     | Total     |
| AK    | 1,148   | 1,217   | 1,265   | 1,334   | 1,255   | 1,035   | 843    | 807    | 780     | 676    | 600    | 474    | 11,434    |
| AL    | 3,758   | 3,579   | 3,575   | 3,372   | 2,645   | 1,784   | 1,199  | 1,108  | 1,455   | 1,080  | 886    | 758    | 25,199    |
| BI    | 153     | 169     | 143     | 211     | 163     | 189     | 177    | 172    | 64      | 68     | 57     | 44     | 1,610     |
| СО    | 9,826   | 10,382  | 10,317  | 9,362   | 7,993   | 6,434   | 6,225  | 5,633  | 5,632   | 4,825  | 4,075  | 3,269  | 83,973    |
| DC    | 1,062   | 1,037   | 867     | 771     | 689     | 462     | 344    | 346    | 562     | 371    | 385    | 208    | 7,104     |
| DE    | 1,718   | 1,661   | 1,807   | 1,716   | 1,310   | 796     | 600    | 496    | 709     | 516    | 366    | 339    | 12,034    |
| GA    | 14,470  | 14,422  | 13,659  | 14,085  | 9,838   | 6,318   | 5,633  | 5,136  | 6,407   | 4,370  | 3,324  | 2,270  | 99,932    |
| HI    | 1,977   | 1,924   | 2,017   | 1,602   | 1,601   | 1,010   | 929    | 878    | 1,013   | 785    | 706    | 428    | 14,870    |
| ID    | 2,179   | 2,381   | 2,458   | 1,852   | 1,680   | 1,328   | 1,115  | 1,119  | 896     | 720    | 681    | 560    | 16,969    |
| IL    | 17,374  | 20,053  | 23,685  | 24,605  | 19,790  | 13,429  | 10,425 | 9,295  | 9,336   | 7,749  | 6,953  | 5,022  | 167,716   |
| IN    | 7,572   | 7,566   | 7,660   | 7,295   | 5,644   | 3,634   | 2,925  | 2,731  | 3,612   | 3,180  | 3,501  | 2,148  | 57,468    |
| KY    | 3,267   | 3,483   | 3,190   | 2,918   | 2,057   | 1,490   | 1,381  | 1,342  | 1,789   | 1,421  | 1,283  | 940    | 24,561    |
| MA    | 11,160  | 10,693  | 9,797   | 8,756   | 6,844   | 5,392   | 5,348  | 5,190  | 6,345   | 4,868  | 4,175  | 3,259  | 81,827    |
| MD    | 10,139  | 10,267  | 9,686   | 9,118   | 6,370   | 4,380   | 4,023  | 3,849  | 5,943   | 4,298  | 3,410  | 2,661  | 74,144    |
| ME    | 488     | 473     | 482     | 485     | 361     | 321     | 313    | 325    | 299     | 272    | 263    | 227    | 4,309     |
| MI    | 9,051   | 9,892   | 9,759   | 9,241   | 7,936   | 6,623   | 6,660  | 6,259  | 6,855   | 6,188  | 5,149  | 4,666  | 88,279    |
| MN    | 8,026   | 7,941   | 7,829   | 7,392   | 5,430   | 4,011   | 4,063  | 3,865  | 4,077   | 3,452  | 3,223  | 2,443  | 61,752    |
| МО    | 4,146   | 4,107   | 3,837   | 3,555   | 2,700   | 1,982   | 1,951  | 1,767  | 1,721   | 1,418  | 1,310  | 822    | 29,316    |
| MP    | 95      | 127     | 91      | 96      | 96      | 133     | 141    | 158    | 151     | 106    | 105    | 61     | 1,360     |
| MT    | 243     | 249     | 285     | 396     | 391     | 333     | 237    | 195    | 173     | 135    | 103    | 83     | 2,823     |
| NC    | 12,458  | 12,742  | 13,198  | 13,421  | 12,105  | 6,863   | 5,414  | 5,118  | 6,718   | 5,578  | 4,762  | 2,908  | 101,285   |
| ND    | 440     | 392     | 395     | 375     | 317     | 210     | 236    | 197    | 212     | 227    | 229    | 166    | 3,396     |
| NH    | 469     | 487     | 539     | 498     | 441     | 354     | 304    | 274    | 327     | 258    | 248    | 183    | 4,382     |
| NJ    | 11,705  | 10,440  | 9,251   | 7,838   | 5,660   | 4,385   | 4,310  | 4,278  | 5,456   | 4,854  | 4,233  | 3,366  | 75,776    |
| NM    | 4,524   | 4,576   | 5,219   | 5,489   | 5,105   | 4,052   | 3,522  | 3,023  | 3,462   | 2,842  | 2,504  | 1,864  | 46,182    |
| NV    | 6,753   | 7,478   | 7,642   | 7,653   | 5,871   | 4,427   | 4,684  | 4,817  | 4,484   | 4,200  | 3,930  | 2,752  | 64,691    |
| OK    | 6,332   | 6,407   | 6,316   | 5,812   | 4,708   | 3,391   | 2,604  | 1,923  | 2,452   | 2,223  | 1,960  | 1,308  | 45,436    |
| PA    | 5,754   | 6,228   | 6,549   | 6,193   | 5,468   | 4,583   | 4,614  | 4,266  | 4,552   | 4,185  | 3,741  | 3,468  | 59,601    |
| RI    | 1,252   | 1,372   | 1,468   | 1,390   | 1,220   | 912     | 852    | 823    | 970     | 866    | 865    | 645    | 12,635    |
| SC    | 2,593   | 2,956   | 3,331   | 3,112   | 3,100   | 2,328   | 2,292  | 2,416  | 2,667   | 2,189  | 1,987  | 1,278  | 30,249    |
| SD    | 659     | 663     | 615     | 583     | 531     | 342     | 259    | 250    | 310     | 308    | 236    | 147    | 4,903     |
| TN    | 5,759   | 5,579   | 4,909   | 4,487   | 3,618   | 2,705   | 2,482  | 2,604  | 3,235   | 2,100  | 1,851  | 1,307  | 40,636    |
| UT    | 4,968   | 5,495   | 5,690   | 6,025   | 5,200   | 3,917   | 3,034  | 2,303  | 2,392   | 2,273  | 1,987  | 1,330  | 44,614    |
| VA    | 12,087  | 12,451  | 11,790  | 10,832  | 7,615   | 5,251   | 4,920  | 4,739  | 6,602   | 4,964  | 4,992  | 2,775  | 89,018    |
| VI    | 33      | 15      | 27      | 26      | 28      | 27      | 17     | 22     | 26      | 22     | 15     | 8      | 266       |
| VT    | 208     | 194     | 198     | 173     | 150     | 100     | 76     | 71     | 95      | 74     | 105    | 66     | 1,510     |
| WI    | 5,677   | 5,635   | 5,713   | 5,840   | 5,052   | 4,122   | 3,691  | 3,049  | 2,918   | 2,526  | 2,326  | 1,825  | 48,374    |
| WY    | 287     | 341     | 325     | 285     | 178     | 137     | 137    | 149    | 129     | 121    | 123    | 115    | 2,327     |
| Total | 189,810 | 195,074 | 195,584 | 188,194 | 151,160 | 109,190 | 97,980 | 90,993 | 104,826 | 86,308 | 76,649 | 56,193 | 1,541,961 |

#### Table 1.1.2.2

|       |                |         | Gender  |         |           |
|-------|----------------|---------|---------|---------|-----------|
| Grade |                | F       | Μ       | Missing | Total     |
| 1     | Count          | 88,567  | 99,927  | 1,316   | 189,810   |
| 1     | % within Grade | 46.7%   | 52.6%   | 0.7%    | 100.0%    |
| 2     | Count          | 91,212  | 102,691 | 1,171   | 195,074   |
| 2     | % within Grade | 46.8%   | 52.6%   | 0.6%    | 100.0%    |
| 2     | Count          | 90,801  | 103,704 | 1,079   | 195,584   |
| 3     | % within Grade | 46.4%   | 53.0    | 0.6%    | 100.0%    |
| 4     | Count          | 86,353  | 100,714 | 1,127   | 188,194   |
| 4     | % within Grade | 45.9%   | 53.5%   | 0.6%    | 100.0%    |
| 5     | Count          | 67,339  | 82,839  | 982     | 151,160   |
| 3     | % within Grade | 44.5%   | 54.8%   | 0.6%    | 100.0%    |
| (     | Count          | 46,801  | 61,495  | 894     | 109,190   |
| 6     | % within Grade | 42.9%   | 56.3%   | 0.8%    | 100.0%    |
| 7     | Count          | 42,365  | 54,862  | 753     | 97,980    |
| /     | % within Grade | 43.2%   | 56.0%   | 0.8%    | 100.0%    |
| 8     | Count          | 39,565  | 50,745  | 683     | 90,993    |
| ð     | % within Grade | 43.5%   | 55.8%   | 0.8%    | 100.0%    |
| 9     | Count          | 43,668  | 59,772  | 1,386   | 104,826   |
| 9     | % within Grade | 41.7%   | 57.0%   | 1.3%    | 100.0%    |
| 10    | Count          | 37,170  | 48,410  | 728     | 86,308    |
| 10    | % within Grade | 43.1%   | 56.1%   | 0.8%    | 100.0%    |
| 11    | Count          | 33,618  | 42,240  | 791     | 76,649    |
| 11    | % within Grade | 43.9%   | 55.1%   | 1.0%    | 100.0%    |
| 12    | Count          | 25,574  | 30,188  | 431     | 56,193    |
| 14    | % within Grade | 45.5%   | 53.7%   | 0.8%    | 100.0%    |
| Total | Count          | 693,033 | 837,587 | 11,341  | 1,541,961 |
| Total | % within Grade | 44.9%   | 54.3%   | 0.7%    | 100.0%    |

Participation by Grade by Gender, S403 Online

### Table 1.1.2.3

|       |                | Hispa    |         |         |           |
|-------|----------------|----------|---------|---------|-----------|
| Grade |                | Hispanic | Other   | Unknown | Total     |
|       | Count          | 117,646  | 60,825  | 11,339  | 189,810   |
| 1     | % within Grade | 62.0%    | 32.0%   | 6.0%    | 100.0%    |
|       | Count          | 123,723  | 59,838  | 11,513  | 195,074   |
| 2     | % within Grade | 63.4%    | 30.7%   | 5.9%    | 100.0%    |
| 3 -   | Count          | 127,614  | 56,091  | 11,879  | 195,584   |
| 3     | % within Grade | 65.2%    | 28.7%   | 6.1%    | 100.0%    |
|       | Count          | 124,555  | 50,254  | 13,385  | 188,194   |
| 4     | % within Grade | 66.2%    | 26.7%   | 7.1%    | 100.0%    |
| _     | Count          | 101,705  | 37,977  | 11,478  | 151,160   |
| 5     | % within Grade | 67.3%    | 25.1%   | 7.6%    | 100.0%    |
| -     | Count          | 71,752   | 27,345  | 10,093  | 109,190   |
| 6 -   | % within Grade | 65.7%    | 25.0%   | 9.2%    | 100.0%    |
| _     | Count          | 62,160   | 26,447  | 9,373   | 97,980    |
| 7     | % within Grade | 63.4%    | 27.0%   | 9.6%    | 100.0%    |
|       | Count          | 57,717   | 24,686  | 8,590   | 90,993    |
| 8     | % within Grade | 63.4%    | 27.1%   | 9.4%    | 100.0%    |
|       | Count          | 66,714   | 27,309  | 10,803  | 104,826   |
| 9     | % within Grade | 63.6%    | 26.1%   | 10.3%   | 100.0%    |
|       | Count          | 54,471   | 24,041  | 7,796   | 86,308    |
| 10    | % within Grade | 63.1%    | 27.9%   | 9.0%    | 100.0%    |
|       | Count          | 47,077   | 22,605  | 6,967   | 76,649    |
| 11 —  | % within Grade | 61.4%    | 29.5%   | 9.1%    | 100.0%    |
|       | Count          | 32,897   | 17,801  | 5,495   | 56,193    |
| 12    | % within Grade | 58.5%    | 31.7%   | 9.8%    | 100.0%    |
|       | Count          | 988,031  | 435,219 | 118,711 | 1,541,961 |
| Total | % within Grade | 64.1%    | 28.2%   | 7.7%    | 100.0%    |

#### Table 1.1.2.4

|       |       |       | Domain  |          |  |
|-------|-------|-------|---------|----------|--|
| Grade |       |       | Writing | Speaking |  |
|       |       | Pre-A | -       | 5,271    |  |
| 1     | Tier  | А     | 154,669 | 64,971   |  |
| 1     |       | BC    | 35,116  | 119,567  |  |
|       | То    | tal   | 189,785 | 189,809  |  |
|       |       | Pre-A | -       | 7,077    |  |
| 2     | Tier  | А     | 56,228  | 44,059   |  |
| 2     |       | BC    | 138,798 | 143,934  |  |
|       | То    | tal   | 195,026 | 195,070  |  |
|       |       | Pre-A | -       | 9,680    |  |
| 2     | Tier  | А     | 37,492  | 39,584   |  |
| 3     |       | BC    | 158,074 | 146,312  |  |
|       | То    | tal   | 195,566 | 195,576  |  |
|       |       | Pre-A | -       | 2,455    |  |
| 4     | Tier  | А     | 24,067  | 16,869   |  |
| 4     |       | BC    | 164,115 | 168,861  |  |
|       | То    | tal   | 188,182 | 188,185  |  |
|       |       | Pre-A | -       | 3,721    |  |
| 5     | Tier  | А     | 23,651  | 13,050   |  |
| 5     |       | BC    | 127,503 | 134,385  |  |
|       | То    | tal   | 151,154 | 151,156  |  |
|       |       | Pre-A | -       | 2,891    |  |
| 6     | Tier  | А     | 34,070  | 19,079   |  |
| 0     |       | BC    | 75,118  | 87,218   |  |
|       | То    | tal   | 109,188 | 109,188  |  |
|       |       | Pre-A | -       | 3,939    |  |
| 7     | Tier  | А     | 38,144  | 16,047   |  |
| /     |       | BC    | 59,834  | 77,991   |  |
|       | Total |       | 97,978  | 97,977   |  |
|       |       | Pre-A | -       | 4,943    |  |
| 8     | Tier  | А     | 37,527  | 26,546   |  |
| 0     |       | BC    | 53,464  | 59,502   |  |
|       | То    | tal   | 90,991  | 90,991   |  |

Participation by Grade by Tier by Domain, S403 Online

|       |      |       | Dor     | nain     |
|-------|------|-------|---------|----------|
| Grade |      |       | Writing | Speaking |
|       |      | Pre-A | -       | 5,593    |
| 9     | Tier | А     | 45,234  | 58,243   |
| 9     |      | BC    | 59,586  | 40,985   |
|       | To   | tal   | 104,820 | 104,821  |
|       |      | Pre-A | -       | 6,645    |
| 10    | Tier | А     | 31,560  | 34,003   |
| 10    |      | BC    | 54,743  | 45,656   |
|       | To   | tal   | 86,303  | 86,304   |
|       | Tier | Pre-A | -       | 6,377    |
| 11    |      | А     | 25,523  | 15,089   |
| 11    |      | BC    | 51,120  | 55,177   |
|       | To   | tal   | 76,643  | 76,643   |
|       |      | Pre-A | -       | 5,117    |
| 12    | Tier | А     | 16,767  | 24,723   |
| 14    |      | BC    | 39,416  | 26,348   |
|       | To   | tal   | 56,183  | 56,188   |

### 1.2. Scale Score Results

This section provides information on students' scale score results.

### 1.2.1. Mean Scale Score Across Domain and Composite Score by Cluster

This section shows mean (average) scale scores by grade-level cluster across the eight scores awarded, first for the four domains (Listening, Reading, Writing, and Speaking) and then for the four composites (Oral Language, Literacy, Comprehension, and Overall Composite). The mean scale scores are expected to increase as grade increases, as ACCESS is vertically scaled, however there is also an intersection between this principle and the population of test takers. In this section, under each average, the number of students in each group is also given.

Additional tables show this information by gender, and by race and ethnicity.

| Cluster |      | Listening | Reading | Writing | Speaking | Oral    | Literacy | Compre-<br>hension | Overall |
|---------|------|-----------|---------|---------|----------|---------|----------|--------------------|---------|
| 1       | Mean | 325.28    | 291.83  | 257.60  | 251.47   | 288.50  | 274.84   | 301.87             | 278.65  |
| 1       | Ν    | 181,107   | 183,421 | 189,643 | 177,524  | 169,891 | 183,361  | 175,698            | 165,022 |
| 2–3     | Mean | 337.28    | 326.16  | 306.94  | 265.92   | 301.72  | 316.71   | 329.54             | 311.97  |
| 2-3     | Ν    | 372,664   | 373,371 | 390,277 | 365,867  | 350,367 | 373,230  | 357,977            | 337,194 |
| 4–5     | Mean | 415.77    | 357.15  | 340.26  | 308.77   | 362.53  | 348.80   | 374.85             | 352.67  |
| 4–3     | Ν    | 322,964   | 318,641 | 306,009 | 313,658  | 300,016 | 291,006  | 305,345            | 262,341 |
| 6–8     | Mean | 396.98    | 348.79  | 329.09  | 312.92   | 355.14  | 339.04   | 363.44             | 343.63  |
| 0-8     | Ν    | 277,787   | 277,957 | 268,694 | 274,839  | 258,336 | 255,314  | 262,840            | 228,280 |
| 9–12    | Mean | 392.26    | 378.41  | 359.07  | 310.40   | 351.49  | 368.90   | 382.83             | 363.45  |
| 9-12    | Ν    | 301,765   | 297,819 | 293,627 | 299,309  | 281,269 | 275,972  | 282,140            | 247,592 |

#### Table 1.2.1.1

| Mean Sca | ale Score | s by Clus | ster, S403 | Online |
|----------|-----------|-----------|------------|--------|
|----------|-----------|-----------|------------|--------|

#### Table 1.2.1.2

| Mean Scale Scores by Gender, S403 Online | 9 |
|--|---|
|--|---|

| Cluster | Condon  |      | <b>T</b> • 4     | Deck    | XX7     | G 1 ·           | 01                 | T •4            | Compre-           | 0                     |
|---------|---------|------|------------------|---------|---------|-----------------|--------------------|-----------------|-------------------|-----------------------|
|         | Gender  |      | Listening        | 294.05  | 261.61  | Speaking 257.70 | <b>Oral</b> 293.49 | Literacy 277.94 | hension<br>304.51 | <b>Overall</b> 282.27 |
|         | F       | Mean | 329.05           |         | 88,494  | 82,942          |                    |                 | 81,797            | 76,928                |
| -       |         | N    | 84,584<br>322.20 | 85,320  |         |                 | 79,431             | 85,301          |                   |                       |
| 1       | М       | Mean |                  | 289.96  | 254.25  | 246.17          | 284.31             | 272.25          | 299.67            | 275.63                |
|         |         | N    | 95,256           | 96,829  | 99,834  | 93,348          | 89,267             | 96,788          | 92,674            | 86,937                |
|         | Missing | Mean | 305.00           | 286.31  | 241.98  | 233.57          | 269.45             | 264.18          | 291.90            | 265.75                |
|         | moonig  | Ν    | 1,267            | 1,272   | 1,315   | 1,234           | 1,193              | 1,272           | 1,227             | 1,157                 |
|         | F       | Mean | 339.09           | 328.49  | 312.75  | 271.87          | 305.58             | 320.79          | 331.69            | 315.96                |
|         | •       | N    | 173,798          | 173,462 | 181,866 | 170,570         | 163,474            | 173,414         | 166,527           | 156,985               |
| 2–3     | м       | Mean | 335.91           | 324.19  | 301.98  | 260.87          | 298.52             | 313.25          | 327.76            | 308.62                |
| 2-3     | М       | N    | 196,719          | 197,749 | 206,162 | 193,186         | 184,867            | 197,657         | 189,381           | 178,251               |
|         | NC      | Mean | 316.82           | 319.12  | 291.92  | 248.31          | 282.28             | 305.77          | 318.58            | 298.44                |
|         | Missing | Ν    | 2,147            | 2,160   | 2,249   | 2,111           | 2,026              | 2,159           | 2,069             | 1,958                 |
|         | 1       | Mean | 415.72           | 358.89  | 345.55  | 311.29          | 363.76             | 352.35          | 376.03            | 355.47                |
|         | F       | Ν    | 146,422          | 143,800 | 138,078 | 142,005         | 135,974            | 131,023         | 138,007           | 118,362               |
|         |         | Mean | 416.11           | 355.83  | 336.12  | 306.90          | 361.79             | 346.07          | 374.05            | 350.58                |
| 4–5     | М       | Ν    | 174,527          | 172,892 | 166,013 | 169,699         | 162,157            | 158,177         | 165,455           | 142,331               |
|         |         | Mean | 389.43           | 346.12  | 317.38  | 287.77          | 338.28             | 331.24          | 358.87            | 332.47                |
|         | Missing | Ν    | 2,015            | 1,949   | 1,918   | 1,954           | 1,885              | 1,806           | 1,883             | 1,648                 |
|         |         | Mean | 396.99           | 352.23  | 334.87  | 314.40          | 355.86             | 343.66          | 365.80            | 347.04                |
|         | F       | N    | 120,267          | 119,706 | 115,677 | 118,374         | 111,569            | 109,867         | 113,552           | 98,390                |
|         |         | Mean | 397.25           | 346.32  | 324.96  | 312.17          | 354.92             | 335.74          | 361.83            | 341.28                |
| 6–8     | М       | N    | 155,344          | 156,029 | 150,919 | 154,301         | 144,732            | 143,417         | 147,198           | 128,060               |
|         |         | Mean | 377.22           | 336.70  | 307.10  | 286.56          | 331.64             | 322.13          | 349.13            | 324.90                |
|         | Missing | N    | 2,176            | 2,222   | 2,098   | 2,164           | 2,035              | 2,030           | 2,090             | 1,830                 |
|         |         | Mean | 393.22           | 382.10  | 365.30  | 313.21          | 353.37             | 373.94          | 385.71            | 367.50                |
|         | F       | N    | 130,894          | 128,400 | 126,323 | 129,154         | 121,779            | 118,621         | 122,097           | 106,730               |
|         |         | Mean | 391.89           | 375.80  | 354.76  | 308.69          | 350.46             | 365.41          | 380.88            | 360.72                |
| 9–12    | М       | N    | 167,760          | 166,373 | 164,273 | 167,052         | 156,583            | 154,507         | 157,163           | 138,314               |
|         |         | Mean | 371.88           | 365.01  | 332.57  | 285.84          | 328.52             | 349.07          | 367.24            | 342.01                |
|         | Missing | N    | 3,111            | 3,046   | 3,031   | 3,103           | 2,907              | 2,844           | 2,880             | 2,548                 |

### Table 1.2.1.3

Mean Scale Scores by Ethnicity, S403 Online

| Cluster | Ethnicity          |      | Listening | Reading | Writing | Speaking | Oral    | Literacy | Compre-<br>hension | Overall |
|---------|--------------------|------|-----------|---------|---------|----------|---------|----------|--------------------|---------|
|         | Non-Hispanic       | Mean | 334.64    | 307.56  | 270.61  | 257.44   | 296.03  | 289.21   | 315.67             | 290.87  |
|         | Asian              | Ν    | 25,087    | 25,373  | 26,289  | 24,608   | 23,560  | 25,370   | 24,301             | 22,861  |
|         | Non-Hispanic       | Mean | 306.70    | 286.89  | 257.14  | 243.67   | 275.41  | 272.20   | 292.71             | 272.77  |
|         | Pacific Islander   | Ν    | 1,554     | 1,589   | 1,648   | 1,554    | 1,474   | 1,588    | 1,507              | 1,432   |
|         | Non-Hispanic       | Mean | 323.64    | 293.89  | 258.81  | 261.96   | 293.13  | 276.54   | 302.88             | 281.34  |
|         | Black              | Ν    | 9,769     | 9,948   | 10,311  | 9,598    | 9,123   | 9,943    | 9,471              | 8,849   |
|         | Hispanic           | Mean | 323.06    | 287.60  | 254.16  | 248.61   | 285.98  | 271.02   | 298.27             | 275.27  |
|         | (Of Any Race)      | Ν    | 112,427   | 113,988 | 117,550 | 110,027  | 105,409 | 113,945  | 109,305            | 102,591 |
| 1       | Non-Hispanic       | Mean | 324.31    | 284.66  | 254.36  | 249.40   | 287.04  | 269.67   | 296.52             | 274.47  |
|         | American<br>Indian | N    | 1,545     | 1,552   | 1,621   | 1,518    | 1,451   | 1,552    | 1,481              | 1,400   |
|         | Non-Hispanic       | Mean | 341.25    | 303.77  | 266.58  | 263.50   | 302.48  | 285.21   | 315.13             | 290.28  |
|         | Multiracial        | Ν    | 832       | 837     | 871     | 831      | 793     | 837      | 801                | 764     |
|         | Non-Hispanic       | Mean | 333.12    | 297.04  | 263.55  | 260.03   | 296.69  | 280.35   | 307.79             | 284.92  |
|         | White              | Ν    | 19,030    | 19,234  | 20,025  | 18,779   | 17,887  | 19,231   | 18,348             | 17,275  |
|         |                    | Mean | 315.93    | 289.27  | 251.28  | 243.13   | 279.62  | 270.37   | 297.23             | 272.70  |
|         | Unknown            | N    | 10,863    | 10,900  | 11,328  | 10,609   | 10,194  | 10,895   | 10,484             | 9,850   |
|         | Non-Hispanic       | Mean | 350.70    | 338.45  | 319.10  | 272.23   | 311.47  | 328.98   | 342.14             | 323.40  |
|         | Asian              | Ν    | 44,742    | 44,845  | 46,797  | 43,862   | 42,074  | 44,830   | 43,073             | 40,615  |
|         | Non-Hispanic       | Mean | 320.29    | 318.74  | 306.43  | 256.85   | 288.47  | 312.69   | 319.42             | 305.24  |
|         | Pacific Islander   | N    | 3,034     | 3,063   | 3,194   | 3,025    | 2,882   | 3,063    | 2,927              | 2,785   |
|         | Non-Hispanic       | Mean | 335.30    | 325.68  | 305.15  | 272.31   | 303.96  | 315.62   | 328.65             | 311.91  |
|         | Black              | N    | 20,048    | 20,113  | 21,165  | 19,668   | 18,705  | 20,108   | 19,181             | 17,935  |
|         | Hispanic           | Mean | 334.48    | 323.56  | 304.76  | 263.98   | 299.36  | 314.32   | 326.89             | 309.62  |
|         | (Of Any Race)      | N    | 240,018   | 240,528 | 251,114 | 235,569  | 225,780 | 240,428  | 230,721            | 217,414 |
| 2–3     | Non-Hispanic       | Mean | 333.49    | 318.30  | 300.23  | 260.53   | 296.93  | 309.28   | 322.80             | 305.28  |
|         | American<br>Indian | N    | 3,209     | 3,261   | 3,396   | 3,195    | 3,027   | 3,260    | 3,088              | 2,912   |
|         | Non-Hispanic       | Mean | 351.90    | 335.03  | 312.47  | 273.24   | 313.13  | 324.04   | 340.46             | 321.02  |
|         | Multiracial        | Ν    | 1,613     | 1,613   | 1,675   | 1,585    | 1,532   | 1,613    | 1,558              | 1,483   |
|         | Non-Hispanic       | Mean | 347.13    | 331.60  | 312.04  | 273.48   | 310.50  | 321.97   | 336.25             | 318.29  |
|         | White              | N    | 37,605    | 37,638  | 39,567  | 37,096   | 35,364  | 37,625   | 35,930             | 33,871  |
|         |                    | Mean | 327.62    | 322.19  | 299.69  | 257.15   | 292.44  | 311.03   | 323.86             | 305.07  |
|         | Unknown            | N    | 22,395    | 22,310  | 23,369  | 21,867   | 21,003  | 22,303   | 21,499             | 20,179  |

| Cluster | Ethnicity          |      | Listening | Reading | Writing | Speaking | Oral    | Literacy | Compre-<br>hension | Overall |
|---------|--------------------|------|-----------|---------|---------|----------|---------|----------|--------------------|---------|
|         | Non-Hispanic       | Mean | 424.67    | 368.42  | 348.99  | 315.57   | 370.35  | 358.86   | 385.40             | 361.99  |
|         | Asian              | N    | 30,845    | 30,552  | 29,391  | 29,979   | 28,797  | 28,150   | 29,408             | 25,611  |
|         | Non-Hispanic       | Mean | 403.21    | 350.47  | 339.49  | 301.87   | 352.89  | 344.84   | 366.23             | 346.90  |
|         | Pacific Islander   | N    | 2,500     | 2,495   | 2,334   | 2,491    | 2,358   | 2,235    | 2,364              | 2,022   |
|         | Non-Hispanic       | Mean | 413.34    | 354.11  | 333.68  | 314.63   | 364.12  | 344.00   | 372.05             | 349.94  |
|         | Black              | N    | 17,037    | 16,853  | 16,201  | 16,541   | 15,683  | 15,311   | 16,037             | 13,612  |
|         | Hispanic           | Mean | 415.74    | 356.21  | 340.66  | 307.83   | 362.08  | 348.57   | 374.20             | 352.41  |
|         | (Of Any Race)      | N    | 215,657   | 212,768 | 204,020 | 209,414  | 200,471 | 194,286  | 204,028            | 175,399 |
| 4–5     | Non-Hispanic       | Mean | 412.82    | 352.36  | 336.25  | 306.49   | 360.10  | 344.67   | 370.58             | 349.11  |
|         | American<br>Indian | N    | 3,430     | 3,433   | 3,254   | 3,300    | 3,161   | 3,116    | 3,293              | 2,787   |
|         | Non-Hispanic       | Mean | 424.60    | 364.11  | 341.81  | 315.96   | 370.02  | 352.94   | 382.29             | 357.22  |
|         | Multiracial        | Ν    | 1,079     | 1,047   | 1,022   | 1,050    | 1,003   | 963      | 1,006              | 873     |
|         | Non-Hispanic       | Mean | 420.83    | 360.82  | 343.75  | 315.81   | 368.64  | 352.40   | 378.91             | 357.09  |
|         | White              | Ν    | 28,842    | 28,265  | 26,457  | 27,954   | 26,644  | 24,938   | 26,972             | 22,302  |
|         |                    | Mean | 401.32    | 349.86  | 326.90  | 296.35   | 348.86  | 338.10   | 365.25             | 340.72  |
|         | Unknown            | Ν    | 23,574    | 23,228  | 23,330  | 22,929   | 21,899  | 22,007   | 22,237             | 19,735  |
|         | Non-Hispanic       | Mean | 409.46    | 362.66  | 342.27  | 326.13   | 368.04  | 352.74   | 376.88             | 357.15  |
|         | Asian              | N    | 24,885    | 24,700  | 23,840  | 24,361   | 23,115  | 22,665   | 23,502             | 20,417  |
|         | Non-Hispanic       | Mean | 386.60    | 342.06  | 325.39  | 306.26   | 346.42  | 334.04   | 355.62             | 337.87  |
|         | Pacific Islander   | N    | 2,320     | 2,325   | 2,183   | 2,353    | 2,146   | 2,020    | 2,171              | 1,772   |
|         | Non-Hispanic       | Mean | 396.53    | 346.50  | 323.27  | 322.28   | 359.54  | 335.02   | 361.74             | 342.25  |
|         | Black              | N    | 17,530    | 17,353  | 16,749  | 17,269   | 16,155  | 15,755   | 16,364             | 13,952  |
|         | Hispanic           | Mean | 395.85    | 347.78  | 329.24  | 311.37   | 353.81  | 338.60   | 362.39             | 342.91  |
|         | (Of Any Race)      | N    | 178,861   | 179,405 | 173,576 | 177,200  | 166,759 | 165,401  | 169,849            | 148,120 |
| 6–8     | Non-Hispanic       | Mean | 397.62    | 347.12  | 329.67  | 316.30   | 357.04  | 338.56   | 362.42             | 344.18  |
|         | American<br>Indian | N    | 3,549     | 3,580   | 3,506   | 3,542    | 3,317   | 3,338    | 3,398              | 2,988   |
|         | Non-Hispanic       | Mean | 408.76    | 357.30  | 335.36  | 323.95   | 366.39  | 346.76   | 372.95             | 352.20  |
|         | Multiracial        | Ν    | 831       | 824     | 816     | 820      | 785     | 774      | 793                | 712     |
|         | Non-Hispanic       | Mean | 405.00    | 354.15  | 334.13  | 321.79   | 363.71  | 344.38   | 369.67             | 350.09  |
|         | White              | Ν    | 23,931    | 23,763  | 23,076  | 23,581   | 22,091  | 21,732   | 22,379             | 19,325  |
|         |                    | Mean | 386.18    | 339.78  | 314.72  | 296.49   | 341.22  | 327.05   | 353.75             | 330.67  |
|         | Unknown            | Ν    | 25,880    | 26,007  | 24,948  | 25,713   | 23,968  | 23,629   | 24,384             | 20,994  |

| Cluster | Ethnicity          |      | Listening | Reading | Writing | Speaking | Oral    | Literacy | Compre-<br>hension | Overall |
|---------|--------------------|------|-----------|---------|---------|----------|---------|----------|--------------------|---------|
|         | Non-Hispanic       | Mean | 403.76    | 392.30  | 374.68  | 329.65   | 366.74  | 383.64   | 395.94             | 378.29  |
|         | Asian              | Ν    | 29,644    | 28,889  | 28,340  | 29,018   | 27,455  | 26,592   | 27,556             | 23,973  |
|         | Non-Hispanic       | Mean | 389.50    | 377.34  | 364.80  | 305.88   | 348.08  | 371.05   | 381.22             | 363.98  |
|         | Pacific Islander   | Ν    | 2,326     | 2,297   | 2,213   | 2,323    | 2,128   | 2,025    | 2,116              | 1,760   |
|         | Non-Hispanic       | Mean | 388.21    | 378.88  | 358.37  | 318.30   | 353.18  | 368.85   | 381.86             | 363.82  |
|         | Black              | Ν    | 23,150    | 22,420  | 22,159  | 22,913   | 21,432  | 20,462   | 21,188             | 18,232  |
|         | Hispanic           | Mean | 391.25    | 376.75  | 358.37  | 307.33   | 349.51  | 367.74   | 381.35             | 362.07  |
|         | (Of Any Race)      | Ν    | 187,961   | 186,545 | 184,006 | 186,465  | 175,635 | 173,841  | 176,954            | 156,275 |
| 9–12    | Non-Hispanic       | Mean | 400.93    | 381.82  | 363.39  | 314.52   | 358.00  | 372.62   | 387.55             | 367.96  |
|         | American<br>Indian | Ν    | 3,885     | 3,898   | 3,856   | 3,847    | 3,641   | 3,670    | 3,696              | 3,294   |
|         | Non-Hispanic       | Mean | 407.04    | 388.48  | 369.09  | 325.47   | 366.81  | 378.95   | 394.35             | 375.11  |
|         | Multiracial        | Ν    | 825       | 811     | 811     | 815      | 775     | 765      | 777                | 698     |
|         | Non-Hispanic       | Mean | 399.93    | 383.05  | 362.50  | 318.65   | 359.40  | 373.11   | 388.57             | 368.85  |
|         | White              | Ν    | 25,572    | 25,078  | 24,558  | 25,513   | 23,911  | 23,075   | 23,717             | 20,759  |
|         |                    | Mean | 381.97    | 369.87  | 343.84  | 296.53   | 339.15  | 356.74   | 373.71             | 350.93  |
|         | Unknown            | Ν    | 28,402    | 27,881  | 27,684  | 28,415   | 26,292  | 25,542   | 26,136             | 22,601  |

#### 1.2.2. Mean Scale Score Across Domain and Composite Score by Grade

This section provides parallel information to the prior section, with mean scale scores broken down by grade rather than by grade-level cluster.

#### Table 1.2.2.1

| Grade |      | Listening | Reading | Writing | Speaking | Oral    | Literacy | Compre-<br>hension | Overall |
|-------|------|-----------|---------|---------|----------|---------|----------|--------------------|---------|
| 1     | Mean | 325.28    | 291.83  | 257.60  | 251.47   | 288.50  | 274.84   | 301.87             | 278.65  |
|       | Ν    | 181,107   | 183,421 | 189,643 | 177,524  | 169,891 | 183,361  | 175,698            | 165,022 |
| 2     | Mean | 325.54    | 318.59  | 296.62  | 259.67   | 292.72  | 307.72   | 320.68             | 302.95  |
|       | Ν    | 185,843   | 186,415 | 194,851 | 182,248  | 174,336 | 186,324  | 178,466            | 167,720 |
| 3     | Mean | 348.97    | 333.70  | 317.23  | 272.13   | 310.63  | 325.67   | 338.35             | 320.90  |
|       | Ν    | 186,821   | 186,956 | 195,426 | 183,619  | 176,031 | 186,906  | 179,511            | 169,474 |
| 4     | Mean | 411.73    | 354.98  | 336.22  | 307.80   | 360.04  | 345.67   | 372.11             | 349.74  |
|       | Ν    | 178,833   | 176,492 | 168,788 | 173,762  | 165,948 | 160,386  | 168,857            | 144,258 |
| 5     | Mean | 420.77    | 359.86  | 345.22  | 309.97   | 365.62  | 352.65   | 378.25             | 356.26  |
|       | Ν    | 144,131   | 142,149 | 137,221 | 139,896  | 134,068 | 130,620  | 136,488            | 118,083 |
| 6     | Mean | 392.60    | 343.10  | 325.33  | 312.55   | 352.79  | 334.34   | 358.12             | 339.68  |
|       | Ν    | 102,133   | 102,022 | 98,248  | 100,736  | 94,973  | 93,378   | 96,582             | 83,413  |
| 7     | Mean | 396.97    | 348.97  | 329.18  | 312.52   | 354.97  | 339.18   | 363.59             | 343.68  |
|       | Ν    | 90,916    | 91,277  | 88,369  | 90,104   | 84,402  | 83,957   | 86,076             | 74,786  |
| 8     | Mean | 402.27    | 355.45  | 333.49  | 313.82   | 358.16  | 344.53   | 369.70             | 348.29  |
|       | Ν    | 84,738    | 84,658  | 82,077  | 83,999   | 78,961  | 77,979   | 80,182             | 70,081  |
| 9     | Mean | 387.25    | 370.19  | 350.34  | 304.33   | 346.02  | 360.30   | 375.56             | 355.79  |
|       | Ν    | 97,431    | 96,429  | 95,109  | 97,071   | 91,005  | 89,312   | 91,152             | 80,043  |
| 10    | Mean | 391.72    | 378.29  | 359.39  | 310.91   | 351.49  | 369.11   | 382.56             | 363.60  |
|       | Ν    | 80,344    | 79,330  | 78,172  | 79,802   | 74,941  | 73,549   | 75,172             | 66,038  |
| 11    | Mean | 396.59    | 384.67  | 365.61  | 314.77   | 355.79  | 375.36   | 388.55             | 369.27  |
|       | Ν    | 71,529    | 70,173  | 69,211  | 70,198   | 66,181  | 64,874   | 66,590             | 57,988  |
| 12    | Mean | 396.51    | 385.38  | 365.95  | 315.04   | 355.86  | 375.84   | 388.97             | 369.58  |
|       | Ν    | 52,461    | 51,887  | 51,135  | 52,238   | 49,142  | 48,237   | 49,226             | 43,523  |

Mean Scale Scores by Grade, S403 Online

#### Table 1.2.2.2

| Grade | Gender   |      | Listening | Reading | Writing | Speaking | Oral   | Literacy | Compre-<br>hension | Overall |
|-------|----------|------|-----------|---------|---------|----------|--------|----------|--------------------|---------|
|       | F        | Mean | 329.05    | 294.05  | 261.61  | 257.70   | 293.49 | 277.94   | 304.51             | 282.27  |
|       | _        | Ν    | 84,584    | 85,320  | 88,494  | 82,942   | 79,431 | 85,301   | 81,797             | 76,928  |
| 1     | М        | Mean | 322.20    | 289.96  | 254.25  | 246.17   | 284.31 | 272.25   | 299.67             | 275.63  |
| -     |          | Ν    | 95,256    | 96,829  | 99,834  | 93,348   | 89,267 | 96,788   | 92,674             | 86,937  |
|       | Missing  | Mean | 305.00    | 286.31  | 241.98  | 233.57   | 269.45 | 264.18   | 291.90             | 265.75  |
|       | winsbing | Ν    | 1,267     | 1,272   | 1,315   | 1,234    | 1,193  | 1,272    | 1,227              | 1,157   |
|       | F        | Mean | 327.93    | 320.52  | 302.05  | 265.61   | 296.86 | 311.39   | 322.72             | 306.72  |
|       |          | Ν    | 87,052    | 86,861  | 91,129  | 85,340   | 81,760 | 86,826   | 83,326             | 78,432  |
| 2     | М        | Mean | 323.60    | 316.95  | 291.94  | 254.54   | 289.20 | 304.58   | 318.97             | 299.73  |
|       |          | Ν    | 97,688    | 98,427  | 102,551 | 95,808   | 91,533 | 98,371   | 94,072             | 88,276  |
|       | Missing  | Mean | 308.25    | 313.22  | 284.03  | 244.61   | 276.70 | 298.77   | 311.90             | 292.17  |
|       | wiissing | Ν    | 1,103     | 1,127   | 1,171   | 1,100    | 1,043  | 1,127    | 1,068              | 1,012   |
|       | F        | Mean | 350.28    | 336.48  | 323.50  | 278.13   | 314.30 | 330.22   | 340.68             | 325.17  |
|       |          | Ν    | 86,746    | 86,601  | 90,737  | 85,230   | 81,714 | 86,588   | 83,201             | 78,553  |
| 3     | М        | Mean | 348.06    | 331.36  | 311.91  | 267.09   | 307.66 | 321.84   | 336.44             | 317.34  |
|       |          | Ν    | 99,031    | 99,322  | 103,611 | 97,378   | 93,334 | 99,286   | 95,309             | 89,975  |
|       | Missing  | Mean | 325.87    | 325.56  | 300.49  | 252.34   | 288.21 | 313.42   | 325.72             | 305.15  |
|       | missing  | Ν    | 1,044     | 1,033   | 1,078   | 1,011    | 983    | 1,032    | 1,001              | 946     |
|       | F        | Mean | 411.90    | 356.54  | 341.39  | 310.80   | 361.60 | 349.04   | 373.21             | 352.48  |
|       |          | Ν    | 82,087    | 80,533  | 77,060  | 79,675   | 76,142 | 72,954   | 77,098             | 65,680  |
| 4     | М        | Mean | 411.85    | 353.75  | 332.07  | 305.44   | 358.92 | 343.00   | 371.32             | 347.61  |
|       |          | Ν    | 95,678    | 94,924  | 90,689  | 93,062   | 88,822 | 86,456   | 90,766             | 77,702  |
|       | Missing  | Mean | 388.55    | 346.37  | 315.70  | 289.85   | 339.08 | 330.55   | 358.93             | 332.76  |
|       | winsbing | Ν    | 1,068     | 1,035   | 1,039   | 1,025    | 984    | 976      | 993                | 876     |
|       | F        | Mean | 420.59    | 361.89  | 350.79  | 311.92   | 366.50 | 356.51   | 379.61             | 359.20  |
|       |          | Ν    | 64,335    | 63,267  | 61,018  | 62,330   | 59,832 | 58,069   | 60,909             | 52,682  |
| 5     | М        | Mean | 421.29    | 358.37  | 341.00  | 308.67   | 365.26 | 349.77   | 377.37             | 354.15  |
| 2     | 141      | N    | 78,849    | 77,968  | 75,324  | 76,637   | 73,335 | 71,721   | 74,689             | 64,629  |
|       | Missing  | Mean | 390.42    | 345.85  | 319.36  | 285.47   | 337.41 | 332.05   | 358.81             | 332.13  |
|       | missing  | Ν    | 947       | 914     | 879     | 929      | 901    | 830      | 890                | 772     |

Mean Scale Scores by Grade by Gender, S403 Online

| Grade | Gender     |      | Listening | Reading | Writing | Speakin<br>g | Oral   | Literacy | Compre-<br>hension | Overall |
|-------|------------|------|-----------|---------|---------|--------------|--------|----------|--------------------|---------|
|       | F          | Mean | 391.99    | 346.21  | 330.96  | 313.39       | 352.89 | 338.72   | 360.06             | 342.73  |
|       |            | Ν    | 43,894    | 43,632  | 41,979  | 43,060       | 40,694 | 39,896   | 41,428             | 35,656  |
| 6     | М          | Mean | 393.31    | 340.88  | 321.38  | 312.24       | 353.00 | 331.25   | 356.80             | 337.61  |
|       |            | Ν    | 57,396    | 57,534  | 55,454  | 56,843       | 53,495 | 52,693   | 54,345             | 47,053  |
|       | Missing    | Mean | 376.23    | 334.29  | 304.56  | 290.13       | 333.33 | 319.52   | 347.16             | 323.71  |
|       | 0          | Ν    | 843       | 856     | 815     | 833          | 784    | 789      | 809                | 704     |
|       | F          | Mean | 397.28    | 352.58  | 335.14  | 314.03       | 355.83 | 343.99   | 366.14             | 347.26  |
|       |            | Ν    | 39,433    | 39,447  | 38,104  | 38,842       | 36,497 | 36,238   | 37,316             | 32,322  |
| 7     | М          | Mean | 397.02    | 346.36  | 324.89  | 311.71       | 354.63 | 335.70   | 361.81             | 341.18  |
|       |            | Ν    | 50,789    | 51,117  | 49,592  | 50,569       | 47,255 | 47,073   | 48,094             | 41,882  |
|       | Missing    | Mean | 375.43    | 336.65  | 307.15  | 286.43       | 330.95 | 322.23   | 348.52             | 324.64  |
|       | minoring   | Ν    | 694       | 713     | 673     | 693          | 650    | 646      | 666                | 582     |
|       | F          | Mean | 402.62    | 359.04  | 339.20  | 315.98       | 359.42 | 349.16   | 372.27             | 351.87  |
|       |            | Ν    | 36,940    | 36,627  | 35,594  | 36,472       | 34,378 | 33,733   | 34,808             | 30,412  |
| 8     | М          | Mean | 402.30    | 352.89  | 329.36  | 312.57       | 357.56 | 341.22   | 367.93             | 345.81  |
| 0     | 141        | N    | 47,159    | 47,378  | 45,873  | 46,889       | 43,982 | 43,651   | 44,759             | 39,125  |
|       | Missing    | Mean | 380.46    | 339.92  | 310.45  | 282.03       | 330.17 | 325.47   | 352.40             | 326.71  |
|       | wiissing   | Ν    | 639       | 653     | 610     | 638          | 601    | 595      | 615                | 544     |
|       | F          | Mean | 388.92    | 374.48  | 357.73  | 307.63       | 348.43 | 366.18   | 379.05             | 360.54  |
|       | 1          | Ν    | 40,706    | 40,003  | 39,474  | 40,370       | 37,933 | 36,975   | 37,935             | 33,205  |
| 9     | М          | Mean | 386.61    | 367.51  | 345.80  | 302.74       | 344.97 | 356.68   | 373.51             | 353.03  |
| -     | 111        | N    | 55,438    | 55,137  | 54,385  | 55,406       | 51,859 | 51,146   | 52,003             | 45,764  |
|       | Missing    | Mean | 361.48    | 351.59  | 314.96  | 269.40       | 315.12 | 333.31   | 354.49             | 326.65  |
|       | wiissing   | Ν    | 1,287     | 1,289   | 1,250   | 1,295        | 1,213  | 1,191    | 1,214              | 1,074   |
|       | F          | Mean | 392.33    | 381.57  | 365.05  | 313.04       | 352.88 | 373.65   | 385.05             | 367.17  |
|       | 1          | N    | 34,741    | 34,091  | 33,476  | 34,323       | 32,361 | 31,495   | 32,453             | 28,408  |
| 10    | М          | Mean | 391.50    | 375.94  | 355.35  | 309.56       | 350.67 | 365.87   | 380.81             | 361.09  |
| 10    | 141        | N    | 44,927    | 44,581  | 44,034  | 44,805       | 41,952 | 41,443   | 42,098             | 37,089  |
|       | Missing    | Mean | 375.92    | 368.06  | 341.33  | 292.54       | 334.12 | 355.36   | 370.62             | 347.83  |
|       | wiissing   | N    | 676       | 658     | 662     | 674          | 628    | 611      | 621                | 541     |
|       | F          | Mean | 396.83    | 387.68  | 370.85  | 317.26       | 357.17 | 379.58   | 390.73             | 372.65  |
|       | 1          | N    | 31,511    | 30,732  | 30,281  | 30,725       | 29,087 | 28,362   | 29,284             | 25,399  |
| 11    | М          | Mean | 396.75    | 382.45  | 361.91  | 313.16       | 355.05 | 372.33   | 387.03             | 366.91  |
| 11    | 101        | N    | 39,276    | 38,724  | 38,203  | 38,740       | 36,407 | 35,832   | 36,624             | 31,980  |
|       | Missing    | Mean | 377.79    | 375.63  | 341.45  | 295.73       | 336.18 | 358.93   | 376.70             | 351.81  |
|       | TATIO21118 | Ν    | 742       | 717     | 727     | 733          | 687    | 680      | 682                | 609     |
|       | F          | Mean | 397.10    | 388.51  | 371.33  | 317.70       | 357.52 | 380.18   | 391.40             | 373.08  |
|       |            | Ν    | 23,936    | 23,574  | 23,092  | 23,736       | 22,398 | 21,789   | 22,425             | 19,718  |
| 12    | М          | Mean | 396.15    | 382.74  | 361.57  | 312.86       | 354.56 | 372.27   | 386.94             | 366.71  |
| 12    | 141        | N    | 28,119    | 27,931  | 27,651  | 28,101       | 26,365 | 26,086   | 26,438             | 23,481  |
|       | Missing    | Mean | 387.29    | 385.08  | 357.45  | 309.56       | 348.25 | 371.75   | 386.29             | 364.80  |
|       | Missing    | N    | 406       | 382     | 392     | 401          | 379    | 362      | 363                | 324     |

| Grade | Ethnicity          |      | Listening | Reading | Writing | Speaking | Oral    | Literacy | Compre-<br>hension | Overall |
|-------|--------------------|------|-----------|---------|---------|----------|---------|----------|--------------------|---------|
|       | Non-Hispanic       | Mean | 334.64    | 307.56  | 270.61  | 257.44   | 296.03  | 289.21   | 315.67             | 290.87  |
|       | Asian              | Ν    | 25,087    | 25,373  | 26,289  | 24,608   | 23,560  | 25,370   | 24,301             | 22,861  |
|       | Non-Hispanic       | Mean | 306.70    | 286.89  | 257.14  | 243.67   | 275.41  | 272.20   | 292.71             | 272.77  |
|       | Pacific Islander   | Ν    | 1,554     | 1,589   | 1,648   | 1,554    | 1,474   | 1,588    | 1,507              | 1,432   |
|       | Non-Hispanic       | Mean | 323.64    | 293.89  | 258.81  | 261.96   | 293.13  | 276.54   | 302.88             | 281.34  |
|       | Black              | Ν    | 9,769     | 9,948   | 10,311  | 9,598    | 9,123   | 9,943    | 9,471              | 8,849   |
|       | Hispanic (Of       | Mean | 323.06    | 287.60  | 254.16  | 248.61   | 285.98  | 271.02   | 298.27             | 275.27  |
|       | Any Race)          | Ν    | 112,427   | 113,988 | 117,550 | 110,027  | 105,409 | 113,945  | 109,305            | 102,591 |
| 1     | Non-Hispanic       | Mean | 324.31    | 284.66  | 254.36  | 249.40   | 287.04  | 269.67   | 296.52             | 274.47  |
|       | American<br>Indian | Ν    | 1,545     | 1,552   | 1,621   | 1,518    | 1,451   | 1,552    | 1,481              | 1,400   |
|       | Non-Hispanic       | Mean | 341.25    | 303.77  | 266.58  | 263.50   | 302.48  | 285.21   | 315.13             | 290.28  |
|       | Multiracial        | Ν    | 832       | 837     | 871     | 831      | 793     | 837      | 801                | 764     |
|       | Non-Hispanic       | Mean | 333.12    | 297.04  | 263.55  | 260.03   | 296.69  | 280.35   | 307.79             | 284.92  |
|       | White              | Ν    | 19,030    | 19,234  | 20,025  | 18,779   | 17,887  | 19,231   | 18,348             | 17,275  |
|       | TT 1               | Mean | 315.93    | 289.27  | 251.28  | 243.13   | 279.62  | 270.37   | 297.23             | 272.70  |
|       | Unknown            | Ν    | 10,863    | 10,900  | 11,328  | 10,609   | 10,194  | 10,895   | 10,484             | 9,850   |
|       | Non-Hispanic       | Mean | 340.58    | 330.86  | 309.94  | 266.61   | 303.65  | 320.55   | 333.77             | 315.18  |
|       | Asian              | Ν    | 23,430    | 23,459  | 24,522  | 22,950   | 22,004  | 23,448   | 22,512             | 21,204  |
|       | Non-Hispanic       | Mean | 306.93    | 311.37  | 295.56  | 250.19   | 278.42  | 303.49   | 310.25             | 295.73  |
|       | Pacific Islander   | Ν    | 1,524     | 1,536   | 1,604   | 1,525    | 1,453   | 1,536    | 1,470              | 1,403   |
|       | Non-Hispanic       | Mean | 325.45    | 318.94  | 296.21  | 267.76   | 296.95  | 307.72   | 320.92             | 304.44  |
|       | Black              | Ν    | 10,136    | 10,167  | 10,709  | 9,949    | 9,455   | 10,163   | 9,676              | 9,044   |
|       | Hispanic (Of       | Mean | 321.70    | 315.71  | 293.71  | 257.22   | 289.57  | 304.83   | 317.51             | 299.98  |
|       | Any Race)          | Ν    | 117,962   | 118,424 | 123,591 | 115,675  | 110,722 | 118,362  | 113,400            | 106,609 |
| 2     | Non-Hispanic       | Mean | 321.53    | 311.99  | 290.14  | 254.03   | 287.74  | 301.20   | 314.81             | 296.77  |
|       | American<br>Indian | Ν    | 1,603     | 1,649   | 1,715   | 1,611    | 1,510   | 1,648    | 1,545              | 1,455   |
|       | Non-Hispanic       | Mean | 340.66    | 327.08  | 302.28  | 266.41   | 303.92  | 314.93   | 331.25             | 311.49  |
|       | Multiracial        | Ν    | 819       | 824     | 853     | 802      | 773     | 824      | 794                | 752     |
|       | Non-Hispanic       | Mean | 336.66    | 323.78  | 302.49  | 267.75   | 302.37  | 313.22   | 327.59             | 309.70  |
|       | White              | Ν    | 19,387    | 19,376  | 20,358  | 19,018   | 18,163  | 19,366   | 18,522             | 17,392  |
|       | I la la            | Mean | 317.12    | 315.34  | 290.19  | 251.03   | 284.16  | 302.84   | 315.91             | 296.84  |
|       | Unknown            | Ν    | 10,982    | 10,980  | 11,499  | 10,718   | 10,256  | 10,977   | 10,547             | 9,861   |

**Table 1.2.2.3**Mean Scale Scores by Grade by Ethnicity, S403 Online

| Grad<br>e | Ethnicity          |      | Listening | Reading | Writing | Speaking | Oral    | Literacy | Compre-<br>hension | Overall |
|-----------|--------------------|------|-----------|---------|---------|----------|---------|----------|--------------------|---------|
|           | Non-Hispanic       | Mean | 361.82    | 346.76  | 329.18  | 278.41   | 320.04  | 338.22   | 351.30             | 332.39  |
|           | Asian              | Ν    | 21,312    | 21,386  | 22,275  | 20,912   | 20,070  | 21,382   | 20,561             | 19,411  |
|           | Non-Hispanic       | Mean | 333.77    | 326.15  | 317.39  | 263.62   | 298.68  | 321.93   | 328.68             | 314.90  |
|           | Pacific Islander   | Ν    | 1,510     | 1,527   | 1,590   | 1,500    | 1,429   | 1,527    | 1,457              | 1,382   |
|           | Non-Hispanic       | Mean | 345.38    | 332.56  | 314.31  | 276.97   | 311.13  | 323.69   | 336.53             | 319.51  |
|           | Black              | Ν    | 9,912     | 9,946   | 10,456  | 9,719    | 9,250   | 9,945    | 9,505              | 8,891   |
|           | Hispanic (Of       | Mean | 346.82    | 331.18  | 315.46  | 270.50   | 308.78  | 323.53   | 335.95             | 318.89  |
| 3         | Any Race)          | Ν    | 122,056   | 122,104 | 127,523 | 119,894  | 115,058 | 122,066  | 117,321            | 110,805 |
|           | Non-Hispanic       | Mean | 345.43    | 324.75  | 310.52  | 267.14   | 306.09  | 317.54   | 330.81             | 313.78  |
|           | American<br>Indian | Ν    | 1,606     | 1,612   | 1,681   | 1,584    | 1,517   | 1,612    | 1,543              | 1,457   |
|           | Non-Hispanic       | Mean | 363.50    | 343.34  | 323.04  | 280.24   | 322.51  | 333.54   | 350.03             | 330.83  |
|           | Multiracial        | Ν    | 794       | 789     | 822     | 783      | 759     | 789      | 764                | 731     |
|           | Non-Hispanic       | Mean | 358.27    | 339.89  | 322.16  | 279.50   | 319.07  | 331.24   | 345.46             | 327.36  |
|           | White              | Ν    | 18,218    | 18,262  | 19,209  | 18,078   | 17,201  | 18,259   | 17,408             | 16,479  |
|           | Unknown            | Mean | 337.71    | 328.82  | 308.89  | 263.03   | 300.34  | 318.96   | 331.51             | 312.94  |
|           | Chikhowh           | Ν    | 11,413    | 11,330  | 11,870  | 11,149   | 10,747  | 11,326   | 10,952             | 10,318  |
|           | Non-Hispanic       | Mean | 422.27    | 366.77  | 346.15  | 315.00   | 368.85  | 356.60   | 383.54             | 359.92  |
|           | Asian              | Ν    | 18,184    | 18,008  | 17,256  | 17,638   | 16,929  | 16,522   | 17,313             | 14,984  |
|           | Non-Hispanic       | Mean | 398.68    | 347.77  | 333.72  | 300.36   | 349.95  | 340.40   | 363.00             | 342.78  |
|           | Pacific Islander   | Ν    | 1,276     | 1,279   | 1,200   | 1,274    | 1,198   | 1,148    | 1,199              | 1,027   |
|           | Non-Hispanic       | Mean | 410.05    | 352.50  | 330.66  | 313.73   | 362.03  | 341.66   | 369.89             | 347.77  |
|           | Black              | Ν    | 9,317     | 9,207   | 8,857   | 9,039    | 8,549   | 8,324    | 8,739              | 7,371   |
|           | Hispanic (Of       | Mean | 411.10    | 353.68  | 336.13  | 306.71   | 359.19  | 345.00   | 371.02             | 349.04  |
| 4         | Any Race)          | Ν    | 118,526   | 116,996 | 111,693 | 115,240  | 110,137 | 106,313  | 112,010            | 95,812  |
|           | Non-Hispanic       | Mean | 407.23    | 348.45  | 329.22  | 304.67   | 356.54  | 339.18   | 366.35             | 344.34  |
|           | American<br>Indian | Ν    | 1,747     | 1,748   | 1,637   | 1,677    | 1,606   | 1,566    | 1,672              | 1,389   |
|           | Non-Hispanic       | Mean | 419.78    | 359.88  | 337.39  | 312.51   | 365.69  | 348.87   | 377.87             | 353.19  |
|           | Multiracial        | Ν    | 605       | 584     | 572     | 595      | 562     | 534      | 557                | 482     |
|           | Non-Hispanic       | Mean | 417.48    | 358.89  | 340.64  | 314.60   | 366.32  | 349.85   | 376.54             | 354.62  |
|           | White              | Ν    | 16,526    | 16,196  | 15,002  | 16,032   | 15,272  | 14,144   | 15,450             | 12,635  |
|           | Unknown            | Mean | 397.82    | 348.27  | 323.17  | 295.49   | 346.79  | 335.45   | 363.13             | 338.30  |
|           |                    | Ν    | 12,652    | 12,474  | 12,571  | 12,267   | 11,695  | 11,835   | 11,917             | 10,558  |

| Grad<br>e | Ethnicity          |      | Listening | Reading | Writing | Speaking | Oral   | Literacy | Compre-<br>hension | Overall |
|-----------|--------------------|------|-----------|---------|---------|----------|--------|----------|--------------------|---------|
|           | Non-Hispanic       | Mean | 428.13    | 370.79  | 353.03  | 316.39   | 372.48 | 362.07   | 388.06             | 364.91  |
|           | Asian              | Ν    | 12,661    | 12,544  | 12,135  | 12,341   | 11,868 | 11,628   | 12,095             | 10,627  |
|           | Non-Hispanic       | Mean | 407.94    | 353.31  | 345.60  | 303.46   | 355.92 | 349.52   | 369.56             | 351.15  |
|           | Pacific Islander   | Ν    | 1,224     | 1,216   | 1,134   | 1,217    | 1,160  | 1,087    | 1,165              | 995     |
|           | Non-Hispanic       | Mean | 417.32    | 356.04  | 337.31  | 315.71   | 366.63 | 346.79   | 374.63             | 352.49  |
|           | Black              | Ν    | 7,720     | 7,646   | 7,344   | 7,502    | 7,134  | 6,987    | 7,298              | 6,241   |
|           | Hispanic (Of       | Mean | 421.39    | 359.29  | 346.13  | 309.21   | 365.60 | 352.88   | 378.07             | 356.46  |
| 5         | Any Race)          | Ν    | 97,131    | 95,772  | 92,327  | 94,174   | 90,334 | 87,973   | 92,018             | 79,587  |
| U         | Non-Hispanic       | Mean | 418.62    | 356.42  | 343.37  | 308.37   | 363.78 | 350.20   | 374.94             | 353.85  |
|           | American<br>Indian | Ν    | 1,683     | 1,685   | 1,617   | 1,623    | 1,555  | 1,550    | 1,621              | 1,398   |
|           | Non-Hispanic       | Mean | 430.76    | 369.44  | 347.43  | 320.46   | 375.53 | 358.01   | 387.78             | 362.20  |
|           | Multiracial        | Ν    | 474       | 463     | 450     | 455      | 441    | 429      | 449                | 391     |
|           | Non-Hispanic       | Mean | 425.34    | 363.40  | 347.82  | 317.44   | 371.74 | 355.74   | 382.08             | 360.32  |
|           | White              | Ν    | 12,316    | 12,069  | 11,455  | 11,922   | 11,372 | 10,794   | 11,522             | 9,667   |
|           | Unknown            | Mean | 405.36    | 351.71  | 331.27  | 297.34   | 351.24 | 341.19   | 367.71             | 343.51  |
|           | Unknown .          | Ν    | 10,922    | 10,754  | 10,759  | 10,662   | 10,204 | 10,172   | 10,320             | 9,177   |
|           | Non-Hispanic       | Mean | 401.72    | 353.74  | 335.01  | 320.31   | 361.24 | 344.69   | 368.39             | 349.55  |
|           | Asian              | Ν    | 8,584     | 8,559   | 8,273   | 8,390    | 7,959  | 7,899    | 8,134              | 7,078   |
|           | Non-Hispanic       | Mean | 382.72    | 337.64  | 322.48  | 306.98   | 344.51 | 330.51   | 351.01             | 334.87  |
|           | Pacific Islander   | Ν    | 864       | 858     | 789     | 876      | 802    | 730      | 806                | 643     |
|           | Non-Hispanic       | Mean | 389.90    | 339.06  | 316.83  | 319.05   | 354.66 | 328.04   | 354.47             | 335.99  |
|           | Black              | Ν    | 5,921     | 5,852   | 5,647   | 5,780    | 5,433  | 5,298    | 5,522              | 4,672   |
|           | Hispanic (Of       | Mean | 391.95    | 342.56  | 326.00  | 311.82   | 352.10 | 334.36   | 357.54             | 339.46  |
| 6         | Any Race)          | Ν    | 67,244    | 67,333  | 64,750  | 66,414   | 62,692 | 61,717   | 63,794             | 55,216  |
| 0         | Non-Hispanic       | Mean | 391.84    | 340.67  | 325.78  | 312.64   | 352.31 | 333.35   | 355.99             | 338.63  |
|           | American<br>Indian | Ν    | 1,314     | 1,304   | 1,274   | 1,273    | 1,209  | 1,211    | 1,252              | 1,070   |
|           | Non-Hispanic       | Mean | 405.68    | 349.96  | 330.21  | 324.43   | 364.96 | 340.98   | 367.14             | 347.93  |
|           | Multiracial        | Ν    | 310       | 301     | 304     | 302      | 290    | 283      | 289                | 259     |
|           | Non-Hispanic       | Mean | 399.47    | 347.60  | 329.66  | 320.47   | 360.49 | 338.93   | 363.34             | 345.38  |
|           | White              | Ν    | 8,586     | 8,464   | 8,253   | 8,449    | 7,953  | 7,748    | 8,007              | 6,916   |
|           | Unknown            | Mean | 384.88    | 336.38  | 313.01  | 299.54   | 342.16 | 324.57   | 350.99             | 329.41  |
|           | UIKIUWII           | Ν    | 9,310     | 9,351   | 8,958   | 9,252    | 8,635  | 8,492    | 8,778              | 7,559   |

| Grad<br>e | Ethnicity          |      | Listening | Reading | Writing | Speaking | Oral   | Literacy | Compre-<br>hension | Overall |
|-----------|--------------------|------|-----------|---------|---------|----------|--------|----------|--------------------|---------|
|           | Non-Hispanic       | Mean | 410.95    | 364.26  | 343.71  | 327.23   | 369.40 | 354.21   | 378.40             | 358.47  |
|           | Asian              | Ν    | 8,413     | 8,342   | 8,076   | 8,266    | 7,815  | 7,639    | 7,923              | 6,864   |
|           | Non-Hispanic       | Mean | 384.25    | 340.35  | 324.07  | 303.55   | 344.16 | 333.00   | 353.93             | 336.66  |
|           | Pacific Islander   | Ν    | 775       | 770     | 748     | 782      | 717    | 682      | 717                | 599     |
|           | Non-Hispanic       | Mean | 396.90    | 346.66  | 323.41  | 322.20   | 359.72 | 335.17   | 361.90             | 342.36  |
|           | Black              | Ν    | 5,802     | 5,786   | 5,581   | 5,755    | 5,353  | 5,253    | 5,408              | 4,615   |
|           | Hispanic (Of       | Mean | 395.48    | 347.63  | 329.03  | 310.54   | 353.25 | 338.42   | 362.21             | 342.64  |
| 7         | Any Race)          | Ν    | 57,736    | 58,164  | 56,360  | 57,345   | 53,751 | 53,753   | 54,916             | 47,981  |
| ,         | Non-Hispanic       | Mean | 399.65    | 348.63  | 330.87  | 319.04   | 359.59 | 340.09   | 364.37             | 346.44  |
|           | American<br>Indian | Ν    | 1,157     | 1,188   | 1,143   | 1,162    | 1,084  | 1,103    | 1,126              | 994     |
|           | Non-Hispanic       | Mean | 411.20    | 360.57  | 338.90  | 323.44   | 367.69 | 349.69   | 375.80             | 354.28  |
|           | Multiracial        | Ν    | 262       | 265     | 258     | 263      | 248    | 247      | 254                | 226     |
|           | Non-Hispanic       | Mean | 405.51    | 354.41  | 334.43  | 321.91   | 363.95 | 344.64   | 370.05             | 350.41  |
|           | White              | Ν    | 8,128     | 8,041   | 7,824   | 7,990    | 7,483  | 7,348    | 7,578              | 6,523   |
|           | Unknown            | Mean | 385.64    | 340.25  | 315.00  | 295.80   | 340.67 | 327.50   | 353.93             | 330.73  |
|           | Chkhown            | Ν    | 8,643     | 8,721   | 8,379   | 8,541    | 7,951  | 7,932    | 8,154              | 6,984   |
|           | Non-Hispanic       | Mean | 416.30    | 370.75  | 348.74  | 331.30   | 373.97 | 360.08   | 384.55             | 364.07  |
|           | Asian              | Ν    | 7,888     | 7,799   | 7,491   | 7,705    | 7,341  | 7,127    | 7,445              | 6,475   |
|           | Non-Hispanic       | Mean | 394.21    | 349.39  | 330.48  | 308.42   | 351.45 | 339.46   | 363.22             | 342.87  |
|           | Pacific Islander   | Ν    | 681       | 697     | 646     | 695      | 627    | 608      | 648                | 530     |
|           | Non-Hispanic       | Mean | 402.92    | 353.96  | 329.71  | 325.60   | 364.29 | 341.97   | 368.97             | 348.41  |
|           | Black              | Ν    | 5,807     | 5,715   | 5,521   | 5,734    | 5,369  | 5,204    | 5,434              | 4,665   |
|           | Hispanic (Of       | Mean | 401.10    | 354.47  | 333.46  | 311.70   | 356.55 | 344.03   | 368.64             | 347.45  |
| 8         | Any Race)          | Ν    | 53,881    | 53,908  | 52,466  | 53,441   | 50,316 | 49,931   | 51,139             | 44,923  |
| 0         | Non-Hispanic       | Mean | 402.51    | 353.20  | 332.95  | 317.64   | 359.91 | 343.07   | 368.16             | 348.17  |
|           | American<br>Indian | Ν    | 1,078     | 1,088   | 1,089   | 1,107    | 1,024  | 1,024    | 1,020              | 924     |
|           | Non-Hispanic       | Mean | 409.97    | 362.51  | 337.93  | 323.91   | 366.76 | 350.52   | 376.76             | 355.01  |
|           | Multiracial        | Ν    | 259       | 258     | 254     | 255      | 247    | 244      | 250                | 227     |
|           | Non-Hispanic       | Mean | 411.00    | 361.50  | 339.08  | 323.22   | 367.29 | 350.44   | 376.70             | 355.27  |
|           | White              | Ν    | 7,217     | 7,258   | 6,999   | 7,142    | 6,655  | 6,636    | 6,794              | 5,886   |
|           | Unknown            | Mean | 388.28    | 343.27  | 316.43  | 293.68   | 340.70 | 329.48   | 356.79             | 332.09  |
|           | Chikhown           | Ν    | 7,927     | 7,935   | 7,611   | 7,920    | 7,382  | 7,205    | 7,452              | 6,451   |

| Grad<br>e | Ethnicity                          |      | Listening | Reading | Writing | Speaking | Oral   | Literacy | Compre-<br>hension | Overall |
|-----------|------------------------------------|------|-----------|---------|---------|----------|--------|----------|--------------------|---------|
|           | Non-Hispanic<br>Asian              | Mean | 403.20    | 388.11  | 370.21  | 327.15   | 365.02 | 379.31   | 392.89             | 374.72  |
|           |                                    | Ν    | 8,439     | 8,195   | 8,026   | 8,230    | 7,802  | 7,510    | 7,831              | 6,779   |
|           | Non-Hispanic<br>Pacific Islander   | Mean | 383.05    | 368.75  | 357.73  | 300.56   | 341.85 | 363.09   | 373.37             | 356.50  |
|           |                                    | Ν    | 859       | 849     | 799     | 848      | 785    | 737      | 786                | 644     |
|           | Non-Hispanic<br>Black              | Mean | 386.45    | 372.67  | 350.90  | 314.53   | 350.56 | 361.97   | 377.01             | 358.14  |
|           |                                    | Ν    | 6,609     | 6,398   | 6,398   | 6,562    | 6,149  | 5,901    | 6,047              | 5,254   |
|           | Hispanic (Of<br>Any Race)          | Mean | 386.25    | 368.53  | 349.95  | 301.92   | 344.40 | 359.32   | 374.10             | 354.69  |
| 9         |                                    | Ν    | 62,141    | 61,685  | 60,985  | 61,937   | 58,167 | 57,430   | 58,384             | 51,574  |
| ,         | Non-Hispanic                       | Mean | 395.47    | 373.13  | 356.21  | 308.76   | 352.00 | 363.98   | 379.60             | 359.69  |
|           | American<br>Indian                 | Ν    | 1,277     | 1,245   | 1,255   | 1,270    | 1,207  | 1,163    | 1,184              | 1,055   |
|           | Non-Hispanic                       | Mean | 399.81    | 380.51  | 362.18  | 317.22   | 359.14 | 371.20   | 386.33             | 367.62  |
|           | Multiracial                        | Ν    | 284       | 279     | 271     | 271      | 262    | 257      | 269                | 235     |
|           | Non-Hispanic<br>White              | Mean | 395.24    | 376.51  | 356.67  | 314.84   | 355.08 | 366.80   | 382.34             | 362.92  |
|           |                                    | Ν    | 7,959     | 7,840   | 7,626   | 7,984    | 7,450  | 7,176    | 7,384              | 6,437   |
|           | Unknown                            | Mean | 372.89    | 358.56  | 329.45  | 284.74   | 328.91 | 343.66   | 363.14             | 338.75  |
|           |                                    | Ν    | 9,863     | 9,938   | 9,749   | 9,969    | 9,183  | 9,138    | 9,267              | 8,065   |
|           | Non-Hispanic<br>Asian              | Mean | 402.60    | 391.19  | 373.43  | 328.98   | 365.92 | 382.41   | 394.78             | 377.09  |
|           |                                    | Ν    | 7,813     | 7,598   | 7,516   | 7,663    | 7,208  | 7,013    | 7,226              | 6,271   |
|           | Non-Hispanic<br>Pacific Islander   | Mean | 389.97    | 378.97  | 365.62  | 307.32   | 349.70 | 372.34   | 381.97             | 364.96  |
|           |                                    | Ν    | 578       | 559     | 556     | 581      | 529    | 500      | 516                | 436     |
|           | Non-Hispanic<br>Black              | Mean | 387.78    | 378.28  | 358.25  | 318.17   | 352.97 | 368.85   | 381.39             | 364.04  |
|           |                                    | Ν    | 6,004     | 5,827   | 5,744   | 5,933    | 5,558  | 5,327    | 5,523              | 4,753   |
|           | Hispanic (Of<br>Any Race)          | Mean | 390.36    | 376.62  | 358.51  | 307.60   | 349.22 | 367.85   | 380.97             | 362.09  |
| 10        |                                    | Ν    | 50,985    | 50,632  | 49,813  | 50,578   | 47,695 | 47,189   | 48,086             | 42,523  |
| 10        | Non-Hispanic<br>American<br>Indian | Mean | 402.23    | 382.38  | 365.17  | 317.50   | 360.18 | 373.73   | 388.26             | 369.71  |
|           |                                    | Ν    | 1,004     | 1,014   | 1,008   | 998      | 940    | 962      | 959                | 862     |
|           | Non-Hispanic<br>Multiracial        | Mean | 410.85    | 389.64  | 367.72  | 327.77   | 369.52 | 378.72   | 396.23             | 375.63  |
|           |                                    | Ν    | 208       | 210     | 213     | 214      | 195    | 199      | 194                | 173     |
|           | Non-Hispanic<br>White              | Mean | 400.02    | 382.84  | 362.77  | 319.78   | 360.04 | 373.20   | 388.58             | 368.99  |
|           |                                    | Ν    | 6,644     | 6,557   | 6,412   | 6,724    | 6,243  | 6,024    | 6,178              | 5,419   |
|           | Unknown                            | Mean | 383.21    | 371.06  | 346.62  | 299.48   | 341.07 | 358.89   | 374.79             | 352.93  |
|           | UIIKIIOWII                         | Ν    | 7,108     | 6,933   | 6,910   | 7,111    | 6,573  | 6,335    | 6,490              | 5,601   |

| Grad<br>e | Ethnicity                          |      | Listening | Reading | Writing | Speaking | Oral   | Literacy | Compre-<br>hension | Overall |
|-----------|------------------------------------|------|-----------|---------|---------|----------|--------|----------|--------------------|---------|
|           | Non-Hispanic<br>Asian              | Mean | 406.81    | 396.52  | 378.54  | 332.63   | 369.88 | 387.72   | 399.89             | 382.26  |
|           |                                    | Ν    | 7,402     | 7,189   | 7,083   | 7,199    | 6,830  | 6,644    | 6,863              | 5,981   |
|           | Non-Hispanic<br>Pacific Islander   | Mean | 396.02    | 385.89  | 372.11  | 310.90   | 353.92 | 378.80   | 389.18             | 371.32  |
|           |                                    | Ν    | 534       | 524     | 498     | 515      | 480    | 457      | 485                | 396     |
|           | Non-Hispanic<br>Black              | Mean | 389.52    | 382.00  | 362.78  | 319.83   | 354.50 | 372.57   | 384.43             | 366.72  |
|           |                                    | Ν    | 5,913     | 5,687   | 5,601   | 5,799    | 5,422  | 5,144    | 5,368              | 4,563   |
|           | Hispanic (Of<br>Any Race)          | Mean | 396.06    | 383.46  | 365.27  | 311.84   | 354.09 | 374.54   | 387.51             | 368.16  |
| 11        |                                    | Ν    | 44,015    | 43,513  | 42,893  | 43,269   | 40,837 | 40,423   | 41,301             | 36,151  |
|           | Non-Hispanic                       | Mean | 404.13    | 388.42  | 368.57  | 317.47   | 361.55 | 378.89   | 393.21             | 373.26  |
|           | American<br>Indian                 | Ν    | 914       | 941     | 915     | 903      | 848    | 888      | 885                | 786     |
|           | Non-Hispanic                       | Mean | 413.68    | 395.06  | 374.17  | 330.67   | 373.25 | 385.18   | 401.50             | 381.60  |
|           | Multiracial                        | Ν    | 204       | 196     | 200     | 201      | 195    | 188      | 191                | 178     |
|           | Non-Hispanic<br>White              | Mean | 401.65    | 387.03  | 366.17  | 320.29   | 361.04 | 377.02   | 391.90             | 372.27  |
|           |                                    | Ν    | 6,151     | 5,960   | 5,879   | 6,011    | 5,697  | 5,515    | 5,676              | 4,950   |
|           | Unknown .                          | Mean | 388.51    | 378.58  | 353.87  | 303.94   | 346.01 | 366.35   | 381.90             | 359.83  |
|           |                                    | Ν    | 6,396     | 6,163   | 6,142   | 6,301    | 5,872  | 5,615    | 5,821              | 4,983   |
|           | Non-Hispanic<br>Asian              | Mean | 402.32    | 394.40  | 377.82  | 330.37   | 366.36 | 386.26   | 396.87             | 379.88  |
|           |                                    | Ν    | 5,990     | 5,907   | 5,715   | 5,926    | 5,615  | 5,425    | 5,636              | 4,942   |
|           | Non-Hispanic<br>Pacific Islander   | Mean | 394.51    | 382.57  | 369.14  | 308.74   | 351.77 | 376.15   | 387.07             | 369.23  |
|           |                                    | Ν    | 355       | 365     | 360     | 379      | 334    | 331      | 329                | 284     |
|           | Non-Hispanic<br>Black              | Mean | 389.61    | 384.51  | 363.76  | 321.89   | 355.52 | 374.09   | 386.12             | 368.07  |
|           |                                    | Ν    | 4,624     | 4,508   | 4,416   | 4,619    | 4,303  | 4,090    | 4,250              | 3,662   |
| 12        | Hispanic (Of<br>Any Race)          | Mean | 395.95    | 383.95  | 365.34  | 311.43   | 353.81 | 374.79   | 387.77             | 368.24  |
|           |                                    | Ν    | 30,820    | 30,715  | 30,315  | 30,681   | 28,936 | 28,799   | 29,183             | 26,027  |
|           | Non-Hispanic<br>American<br>Indian | Mean | 404.93    | 387.60  | 367.04  | 317.01   | 361.39 | 377.83   | 393.14             | 373.14  |
|           |                                    | Ν    | 690       | 698     | 678     | 676      | 646    | 657      | 668                | 591     |
|           | Non-Hispanic<br>Multiracial        | Mean | 406.33    | 393.96  | 378.09  | 330.88   | 368.63 | 386.11   | 397.80             | 379.74  |
|           |                                    | Ν    | 129       | 126     | 127     | 129      | 123    | 121      | 123                | 112     |
|           | Non-Hispanic<br>White              | Mean | 405.35    | 389.18  | 367.06  | 321.37   | 363.57 | 378.44   | 394.63             | 374.01  |
|           |                                    | Ν    | 4,818     | 4,721   | 4,641   | 4,794    | 4,521  | 4,360    | 4,479              | 3,953   |
|           | Unknown                            | Mean | 389.69    | 380.26  | 356.05  | 306.43   | 347.96 | 368.41   | 383.20             | 361.74  |
|           | Chikhown                           | Ν    | 5,035     | 4,847   | 4,883   | 5,034    | 4,664  | 4,454    | 4,558              | 3,952   |

### 1.2.3. Correlations

Tables in this section show Pearson correlations among the four domain scale scores by gradelevel cluster across all tiers, as well as the number of students included in each correlation.

#### Table 1.2.3.1

|           |                     | Listening | Reading | Writing | Speaking |
|-----------|---------------------|-----------|---------|---------|----------|
| Listoning | Pearson Correlation | 1         | .395    | .514    | .484     |
| Listening | Ν                   | 181,107   | 175,698 | 181,045 | 169,891  |
| Decker    | Pearson Correlation |           | 1       | .509    | .290     |
| Reading   | Ν                   |           |         | 183,361 | 172,010  |
|           | Pearson Correlation |           |         | 1       | .400     |
| Writing   | Ν                   |           |         |         | 177,466  |
| Speeking  | Pearson Correlation |           |         |         | 1        |
| Speaking  | N                   |           |         |         | 177,524  |

#### Table 1.2.3.2

Correlations Among Scale Scores: Grades 2–3, S403 Online

|               |                     | Listening | Reading | Writing | Speaking |
|---------------|---------------------|-----------|---------|---------|----------|
| T toto a to a | Pearson Correlation | 1         | .595    | .625    | .550     |
| Listening     | Ν                   | 372,664   | 357,977 | 372,521 | 350,367  |
| Deading       | Pearson Correlation |           | 1       | .647    | .462     |
| Reading       | Ν                   |           | 373,371 | 373,230 | 350,946  |
|               | Pearson Correlation |           |         | 1       | .543     |
| Writing       | Ν                   |           |         |         | 365,728  |
| Speaking      | Pearson Correlation |           |         |         | 1        |
| Speaking      | Ν                   |           |         |         | 365,867  |

#### Table 1.2.3.3

Correlations Among Scale Scores: Grades 4–5, S403 Online

|                |                     | Listening | Reading | Writing | Speaking |
|----------------|---------------------|-----------|---------|---------|----------|
| <b>T</b> • 4 • | Pearson Correlation | 1         | .656    | .633    | .553     |
| Listening      | Ν                   | 322,964   | 305,345 | 293,093 | 300,016  |
| Dee Kue        | Pearson Correlation |           | 1       | .636    | .480     |
| Reading        | N                   |           |         | 291,006 | 296,270  |
| XX7*4*         | Pearson Correlation |           |         | 1       | .550     |
| Writing        | N                   |           |         |         | 285,110  |
| Succluing      | Pearson Correlation |           |         |         | 1        |
| Speaking       | N                   |           |         |         | 313,658  |

# **Table 1.2.3.4**Correlations Among Scale Scores: Grades 6–8, S403 Online

|           |                     | Listening | Reading | Writing | Speaking |
|-----------|---------------------|-----------|---------|---------|----------|
| Listening | Pearson Correlation | 1         | .681    | .648    | .578     |
|           | Ν                   | 277,787   | 262,840 | 254,117 | 258,336  |
| Reading   | Pearson Correlation |           | 1       | .758    | .538     |
|           | Ν                   |           |         | 255,314 | 258,714  |
| Writing   | Pearson Correlation |           |         | 1       | .610     |
|           | Ν                   |           |         |         | 250,833  |
| Speaking  | Pearson Correlation |           |         |         | 1        |
|           | Ν                   |           |         |         | 274,839  |

#### Table 1.2.3.5

Correlations Among Scale Scores: Grades 9–12, S403 Online

|                |                     | Listening | Reading | Writing | Speaking |
|----------------|---------------------|-----------|---------|---------|----------|
| <b>T</b> • 4 • | Pearson Correlation | 1         | .690    | .524    | .547     |
| Listening      | Ν                   | 301,765   | 282,140 | 277,444 | 281,269  |
| Desiliers      | Pearson Correlation |           | 1       | .634    | .586     |
| Reading        | Ν                   |           |         | 275,972 | 278,198  |
|                | Pearson Correlation |           |         | 1       | .608     |
| Writing        | Ν                   |           |         |         | 274,232  |
| Greeking       | Pearson Correlation |           |         |         | 1        |
| Speaking       | Ν                   |           |         |         | 299,309  |

# 1.3. Proficiency Level Results

# 1.3.1. Domains

1.3.1.1. Listening

1.3.1.1.1. By Cluster

#### Table 1.3.1.1.1.1

Proficiency Level by Cluster (Count): Listening, S403 Online

|         |        | Listening Proficiency Range |        |        |        |         |         |  |  |  |
|---------|--------|-----------------------------|--------|--------|--------|---------|---------|--|--|--|
| Cluster | 1      | 1 2 3 4 5 6                 |        |        |        |         |         |  |  |  |
| 1       | 16,004 | 8,117                       | 16,930 | 10,511 | 25,558 | 103,987 | 181,107 |  |  |  |
| 2–3     | 35,537 | 33,822                      | 69,544 | 25,884 | 66,331 | 141,546 | 372,664 |  |  |  |
| 4–5     | 8,807  | 5,306                       | 16,593 | 13,910 | 36,476 | 241,872 | 322,964 |  |  |  |
| 6–8     | 11,785 | 16,185                      | 49,379 | 46,169 | 49,646 | 104,623 | 277,787 |  |  |  |
| 9–12    | 35,658 | 38,341                      | 73,155 | 57,976 | 41,236 | 55,399  | 301,765 |  |  |  |

#### Table 1.3.1.1.1.2

Proficiency Level by Cluster (Percent): Listening, S403 Online

|         |       | Listening Proficiency Range |       |       |       |       |        |  |  |  |  |
|---------|-------|-----------------------------|-------|-------|-------|-------|--------|--|--|--|--|
| Cluster | 1     | 1 2 3 4 5 6                 |       |       |       |       |        |  |  |  |  |
| 1       | 8.8%  | 4.5%                        | 9.3%  | 5.8%  | 14.1% | 57.4% | 100.0% |  |  |  |  |
| 2–3     | 9.5%  | 9.1%                        | 18.7% | 6.9%  | 17.8% | 38.0% | 100.0% |  |  |  |  |
| 4–5     | 2.7%  | 1.6%                        | 5.1%  | 4.3%  | 11.3% | 74.9% | 100.0% |  |  |  |  |
| 6–8     | 4.2%  | 5.8%                        | 17.8% | 16.6% | 17.9% | 37.7% | 100.0% |  |  |  |  |
| 9–12    | 11.8% | 12.7%                       | 24.2% | 19.2% | 13.7% | 18.4% | 100.0% |  |  |  |  |

## 1.3.1.1.2. By Grade

## Table 1.3.1.1.2.1

|       |        | Liste  | ening Pro | ficiency <b>R</b> | lange  |         |         |
|-------|--------|--------|-----------|-------------------|--------|---------|---------|
| Grade | 1      | 2      | 3         | 4                 | 5      | 6       | Total   |
| 1     | 16,004 | 8,117  | 16,930    | 10,511            | 25,558 | 103,987 | 181,107 |
| 2     | 19,280 | 17,281 | 39,292    | 14,007            | 34,505 | 61,478  | 185,843 |
| 3     | 16,257 | 16,541 | 30,252    | 11,877            | 31,826 | 80,068  | 186,821 |
| 4     | 4,149  | 2,530  | 9,527     | 7,668             | 20,003 | 134,956 | 178,833 |
| 5     | 4,658  | 2,776  | 7,066     | 6,242             | 16,473 | 106,916 | 144,131 |
| 6     | 2,982  | 4,475  | 16,732    | 16,370            | 22,048 | 39,526  | 102,133 |
| 7     | 3,934  | 5,261  | 17,538    | 16,225            | 15,114 | 32,844  | 90,916  |
| 8     | 4,869  | 6,449  | 15,109    | 13,574            | 12,484 | 32,253  | 84,738  |
| 9     | 7,598  | 14,155 | 24,186    | 19,509            | 13,233 | 18,750  | 97,431  |
| 10    | 9,665  | 10,525 | 18,780    | 15,406            | 10,491 | 15,477  | 80,344  |
| 11    | 10,424 | 6,931  | 18,215    | 12,864            | 10,669 | 12,426  | 71,529  |
| 12    | 7,971  | 6,730  | 11,974    | 10,197            | 6,843  | 8,746   | 52,461  |

Proficiency Level by Grade (Count): Listening, S403 Online

#### Table 1.3.1.1.1.2

Proficiency Level by Grade (Percent): Listening, S403 Online

|       |       | Lis   | stening Pr | oficiency | Range |       |        |
|-------|-------|-------|------------|-----------|-------|-------|--------|
| Grade | 1     | 2     | 3          | 4         | 5     | 6     | Total  |
| 1     | 8.8%  | 4.5%  | 9.3%       | 5.8%      | 14.1% | 57.4% | 100.0% |
| 2     | 10.4% | 9.3%  | 21.1%      | 7.5%      | 18.6% | 33.1% | 100.0% |
| 3     | 8.7%  | 8.9%  | 16.2%      | 6.4%      | 17.0% | 42.9% | 100.0% |
| 4     | 2.3%  | 1.4%  | 5.3%       | 4.3%      | 11.2% | 75.5% | 100.0% |
| 5     | 3.2%  | 1.9%  | 4.9%       | 4.3%      | 11.4% | 74.2% | 100.0% |
| 6     | 2.9%  | 4.4%  | 16.4%      | 16.0%     | 21.6% | 38.7% | 100.0% |
| 7     | 4.3%  | 5.8%  | 19.3%      | 17.8%     | 16.6% | 36.1% | 100.0% |
| 8     | 5.7%  | 7.6%  | 17.8%      | 16.0%     | 14.7% | 38.1% | 100.0% |
| 9     | 7.8%  | 14.5% | 24.8%      | 20.0%     | 13.6% | 19.2% | 100.0% |
| 10    | 12.0% | 13.1% | 23.4%      | 19.2%     | 13.1% | 19.3% | 100.0% |
| 11    | 14.6% | 9.7%  | 25.5%      | 18.0%     | 14.9% | 17.4% | 100.0% |
| 12    | 15.2% | 12.8% | 22.8%      | 19.4%     | 13.0% | 16.7% | 100.0% |

# 1.3.1.2. Reading

## 1.3.1.2.1. By Cluster

#### Table 1.3.1.2.1.1

Proficiency Level by Cluster (Count): Reading, S403 Online

|         |        | <b>Reading Proficiency Range</b> |        |        |        |        |         |  |  |  |
|---------|--------|----------------------------------|--------|--------|--------|--------|---------|--|--|--|
| Cluster | 1      | 2                                | 3      | 4      | 5      | 6      | Total   |  |  |  |
| 1       | 33,816 | 49,853                           | 38,074 | 21,768 | 19,998 | 19,912 | 183,421 |  |  |  |
| 2–3     | 50,565 | 87,129                           | 81,442 | 38,959 | 69,149 | 46,127 | 373,371 |  |  |  |
| 4–5     | 30,983 | 59,147                           | 61,767 | 33,323 | 65,877 | 67,544 | 318,641 |  |  |  |
| 6–8     | 88,895 | 62,784                           | 62,601 | 19,649 | 27,489 | 16,539 | 277,957 |  |  |  |
| 9–12    | 65,145 | 76,809                           | 58,712 | 22,702 | 37,728 | 36,723 | 297,819 |  |  |  |

#### Table 1.3.1.2.1.2

Proficiency Level by Cluster (Percent): Reading, S403 Online

|         |       | Reading Proficiency Range |       |       |       |       |        |  |  |  |
|---------|-------|---------------------------|-------|-------|-------|-------|--------|--|--|--|
| Cluster | 1     | 2                         | 3     | 4     | 5     | 6     | Total  |  |  |  |
| 1       | 18.4% | 27.2%                     | 20.8% | 11.9% | 10.9% | 10.9% | 100.0% |  |  |  |
| 2–3     | 13.5% | 23.3%                     | 21.8% | 10.4% | 18.5% | 12.4% | 100.0% |  |  |  |
| 4–5     | 9.7%  | 18.6%                     | 19.4% | 10.5% | 20.7% | 21.2% | 100.0% |  |  |  |
| 6–8     | 32.0% | 22.6%                     | 22.5% | 7.1%  | 9.9%  | 6.0%  | 100.0% |  |  |  |
| 9–12    | 21.9% | 25.8%                     | 19.7% | 7.6%  | 12.7% | 12.3% | 100.0% |  |  |  |

## 1.3.1.2.2. By Grade

### Table 1.3.1.2.2.1

|       |        | R      | eading Pr | oficiency | Range  |        |         |
|-------|--------|--------|-----------|-----------|--------|--------|---------|
| Grade | 1      | 2      | 3         | 4         | 5      | 6      | Total   |
| 1     | 33,816 | 49,853 | 38,074    | 21,768    | 19,998 | 19,912 | 183,421 |
| 2     | 22,892 | 42,882 | 45,239    | 21,205    | 34,136 | 20,061 | 186,415 |
| 3     | 27,673 | 44,247 | 36,203    | 17,754    | 35,013 | 26,066 | 186,956 |
| 4     | 14,447 | 30,894 | 33,552    | 21,406    | 38,129 | 38,064 | 176,492 |
| 5     | 16,536 | 28,253 | 28,215    | 11,917    | 27,748 | 29,480 | 142,149 |
| 6     | 31,825 | 23,449 | 24,836    | 7,856     | 9,764  | 4,292  | 102,022 |
| 7     | 29,924 | 19,833 | 21,103    | 6,360     | 7,596  | 6,461  | 91,277  |
| 8     | 27,146 | 19,502 | 16,662    | 5,433     | 10,129 | 5,786  | 84,658  |
| 9     | 23,743 | 24,163 | 19,044    | 6,243     | 11,403 | 11,833 | 96,429  |
| 10    | 16,769 | 19,604 | 16,490    | 6,432     | 11,284 | 8,751  | 79,330  |
| 11    | 13,656 | 18,573 | 12,974    | 5,751     | 8,817  | 10,402 | 70,173  |
| 12    | 10,977 | 14,469 | 10,204    | 4,276     | 6,224  | 5,737  | 51,887  |

Proficiency Level by Grade (Count): Reading, S403 Online

#### Table 1.3.1.2.2.2

Proficiency Level by Grade (Percent): Reading, S403 Online

|       |       | Re    | ading Pro | oficiency l | Range |       |        |
|-------|-------|-------|-----------|-------------|-------|-------|--------|
| Grade | 1     | 2     | 3         | 4           | 5     | 6     | Total  |
| 1     | 18.4% | 27.2% | 20.8%     | 11.9%       | 10.9% | 10.9% | 100.0% |
| 2     | 12.3% | 23.0% | 24.3%     | 11.4%       | 18.3% | 10.8% | 100.0% |
| 3     | 14.8% | 23.7% | 19.4%     | 9.5%        | 18.7% | 13.9% | 100.0% |
| 4     | 8.2%  | 17.5% | 19.0%     | 12.1%       | 21.6% | 21.6% | 100.0% |
| 5     | 11.6% | 19.9% | 19.8%     | 8.4%        | 19.5% | 20.7% | 100.0% |
| 6     | 31.2% | 23.0% | 24.3%     | 7.7%        | 9.6%  | 4.2%  | 100.0% |
| 7     | 32.8% | 21.7% | 23.1%     | 7.0%        | 8.3%  | 7.1%  | 100.0% |
| 8     | 32.1% | 23.0% | 19.7%     | 6.4%        | 12.0% | 6.8%  | 100.0% |
| 9     | 24.6% | 25.1% | 19.7%     | 6.5%        | 11.8% | 12.3% | 100.0% |
| 10    | 21.1% | 24.7% | 20.8%     | 8.1%        | 14.2% | 11.0% | 100.0% |
| 11    | 19.5% | 26.5% | 18.5%     | 8.2%        | 12.6% | 14.8% | 100.0% |
| 12    | 21.2% | 27.9% | 19.7%     | 8.2%        | 12.0% | 11.1% | 100.0% |

#### 1.3.1.3. Writing

## 1.3.1.3.1. By Cluster

#### Table 1.3.1.3.1.1

|         |        | Writing Proficiency Range |         |         |       |     |         |  |  |  |
|---------|--------|---------------------------|---------|---------|-------|-----|---------|--|--|--|
| Cluster | 1      | 2                         | 3       | 4       | 5     | 6   | Total   |  |  |  |
| 1       | 36,560 | 112,912                   | 38,660  | 1,506   | 4     | 1   | 189,643 |  |  |  |
| 2–3     | 23,372 | 59,606                    | 243,975 | 61,999  | 1,255 | 70  | 390,277 |  |  |  |
| 4–5     | 12,733 | 18,693                    | 136,693 | 132,042 | 5,625 | 223 | 306,009 |  |  |  |
| 6–8     | 30,296 | 44,238                    | 131,148 | 62,455  | 526   | 31  | 268,694 |  |  |  |
| 9–12    | 28,498 | 39,382                    | 137,791 | 85,543  | 2,402 | 11  | 293,627 |  |  |  |

Proficiency Level by Cluster (Count): Writing, S403 Online

## Table 1.3.1.3.1.2

Proficiency Level by Cluster (Percent): Writing, S403 Online

|         |       | Writing Proficiency Range |       |       |      |      |        |  |  |  |  |
|---------|-------|---------------------------|-------|-------|------|------|--------|--|--|--|--|
| Cluster | 1     | 1 2 3 4 5 6               |       |       |      |      |        |  |  |  |  |
| 1       | 19.3% | 59.5%                     | 20.4% | 0.8%  | 0.0% | 0.0% | 100.0% |  |  |  |  |
| 2–3     | 6.0%  | 15.3%                     | 62.5% | 15.9% | 0.3% | 0.0% | 100.0% |  |  |  |  |
| 4–5     | 4.2%  | 6.1%                      | 44.7% | 43.1% | 1.8% | 0.1% | 100.0% |  |  |  |  |
| 6–8     | 11.3% | 16.5%                     | 48.8% | 23.2% | 0.2% | 0.0% | 100.0% |  |  |  |  |
| 9–12    | 9.7%  | 13.4%                     | 46.9% | 29.1% | 0.8% | 0.0% | 100.0% |  |  |  |  |

## 1.3.1.3.2. By Grade

### Table 1.3.1.3.2.1

|       |        | W       | riting Pro | oficiency | Range |     |         |
|-------|--------|---------|------------|-----------|-------|-----|---------|
| Grade | 1      | 2       | 3          | 4         | 5     | 6   | Total   |
| 1     | 36,560 | 112,912 | 38,660     | 1,506     | 4     | 1   | 189,643 |
| 2     | 14,021 | 35,231  | 126,900    | 18,503    | 189   | 7   | 194,851 |
| 3     | 9,351  | 24,375  | 117,075    | 43,496    | 1,066 | 63  | 195,426 |
| 4     | 7,489  | 9,171   | 79,945     | 69,676    | 2,377 | 130 | 168,788 |
| 5     | 5,244  | 9,522   | 56,748     | 62,366    | 3,248 | 93  | 137,221 |
| 6     | 8,977  | 15,302  | 51,861     | 21,970    | 132   | 6   | 98,248  |
| 7     | 10,063 | 16,580  | 39,902     | 21,651    | 162   | 11  | 88,369  |
| 8     | 11,256 | 12,356  | 39,385     | 18,834    | 232   | 14  | 82,077  |
| 9     | 9,222  | 13,620  | 43,100     | 28,138    | 1,020 | 9   | 95,109  |
| 10    | 6,123  | 10,043  | 37,800     | 23,357    | 847   | 2   | 78,172  |
| 11    | 6,623  | 8,327   | 33,252     | 20,638    | 371   | 0   | 69,211  |
| 12    | 6,530  | 7,392   | 23,639     | 13,410    | 164   | 0   | 51,135  |

Proficiency Level by Grade (Count): Writing, S403 Online

## Table 1.3.1.3.2.2

Proficiency Level by Grade (Percent): Writing, S403 Online

|       |       | Wı    | riting Pro | ficiency <b>F</b> | Range |      |        |
|-------|-------|-------|------------|-------------------|-------|------|--------|
| Grade | 1     | 2     | 3          | 4                 | 5     | 6    | Total  |
| 1     | 19.3% | 59.5% | 20.4%      | 0.8%              | 0.0%  | 0.0% | 100.0% |
| 2     | 7.2%  | 18.1% | 65.1%      | 9.5%              | 0.1%  | 0.0% | 100.0% |
| 3     | 4.8%  | 12.5% | 59.9%      | 22.3%             | 0.5%  | 0.0% | 100.0% |
| 4     | 4.4%  | 5.4%  | 47.4%      | 41.3%             | 1.4%  | 0.1% | 100.0% |
| 5     | 3.8%  | 6.9%  | 41.4%      | 45.4%             | 2.4%  | 0.1% | 100.0% |
| 6     | 9.1%  | 15.6% | 52.8%      | 22.4%             | 0.1%  | 0.0% | 100.0% |
| 7     | 11.4% | 18.8% | 45.2%      | 24.5%             | 0.2%  | 0.0% | 100.0% |
| 8     | 13.7% | 15.1% | 48.0%      | 22.9%             | 0.3%  | 0.0% | 100.0% |
| 9     | 9.7%  | 14.3% | 45.3%      | 29.6%             | 1.1%  | 0.0% | 100.0% |
| 10    | 7.8%  | 12.8% | 48.4%      | 29.9%             | 1.1%  | 0.0% | 100.0% |
| 11    | 9.6%  | 12.0% | 48.0%      | 29.8%             | 0.5%  | 0.0% | 100.0% |
| 12    | 12.8% | 14.5% | 46.2%      | 26.2%             | 0.3%  | 0.0% | 100.0% |

## 1.3.1.4. Speaking

## 1.3.1.4.1. By Cluster

## Table 1.3.1.4.1.1

|         |        | Speaking Proficiency Range |         |        |       |     |         |  |  |  |
|---------|--------|----------------------------|---------|--------|-------|-----|---------|--|--|--|
| Cluster | 1      | 2                          | 3       | 4      | 5     | 6   | Total   |  |  |  |
| 1       | 26,620 | 73,520                     | 59,638  | 17,186 | 541   | 19  | 177,524 |  |  |  |
| 2–3     | 58,072 | 158,461                    | 127,360 | 21,221 | 645   | 108 | 365,867 |  |  |  |
| 4–5     | 27,831 | 72,872                     | 140,802 | 68,506 | 3,501 | 146 | 313,658 |  |  |  |
| 6–8     | 50,672 | 73,011                     | 114,987 | 35,337 | 774   | 58  | 274,839 |  |  |  |
| 9–12    | 91,818 | 98,331                     | 102,557 | 6,503  | 86    | 14  | 299,309 |  |  |  |

Proficiency Level by Cluster (Count): Speaking, S403 Online

## Table 1.3.1.4.1.2

Proficiency Level by Cluster (Percent): Speaking, S403 Online

|         |       | Speaking Proficiency Range |       |       |      |      |        |  |  |
|---------|-------|----------------------------|-------|-------|------|------|--------|--|--|
| Cluster | 1     | 2                          | 3     | 4     | 5    | 6    | Total  |  |  |
| 1       | 15.0% | 41.4%                      | 33.6% | 9.7%  | 0.3% | 0.0% | 100.0% |  |  |
| 2–3     | 15.9% | 43.3%                      | 34.8% | 5.8%  | 0.2% | 0.0% | 100.0% |  |  |
| 4–5     | 8.9%  | 23.2%                      | 44.9% | 21.8% | 1.1% | 0.0% | 100.0% |  |  |
| 6–8     | 18.4% | 26.6%                      | 41.8% | 12.9% | 0.3% | 0.0% | 100.0% |  |  |
| 9–12    | 30.7% | 32.9%                      | 34.3% | 2.2%  | 0.0% | 0.0% | 100.0% |  |  |

## 1.3.1.4.2. By Grade

## Table 1.3.1.4.2.1

|       |        | SI     | oeaking P | roficiency | y Range |     |         |
|-------|--------|--------|-----------|------------|---------|-----|---------|
| Grade | 1      | 2      | 3         | 4          | 5       | 6   | Total   |
| 1     | 26,620 | 73,520 | 59,638    | 17,186     | 541     | 19  | 177,524 |
| 2     | 26,963 | 80,187 | 64,375    | 10,298     | 395     | 30  | 182,248 |
| 3     | 31,109 | 78,274 | 62,985    | 10,923     | 250     | 78  | 183,619 |
| 4     | 12,558 | 36,423 | 80,068    | 42,259     | 2,341   | 113 | 173,762 |
| 5     | 15,273 | 36,449 | 60,734    | 26,247     | 1,160   | 33  | 139,896 |
| 6     | 13,808 | 26,880 | 43,681    | 16,139     | 201     | 27  | 100,736 |
| 7     | 15,902 | 27,993 | 35,012    | 10,854     | 335     | 8   | 90,104  |
| 8     | 20,962 | 18,138 | 36,294    | 8,344      | 238     | 23  | 83,999  |
| 9     | 30,243 | 33,120 | 30,542    | 3,128      | 37      | 1   | 97,071  |
| 10    | 22,764 | 29,952 | 25,407    | 1,661      | 16      | 2   | 79,802  |
| 11    | 22,060 | 20,875 | 26,285    | 955        | 19      | 4   | 70,198  |
| 12    | 16,751 | 14,384 | 20,323    | 759        | 14      | 7   | 52,238  |

Proficiency Level by Grade (Count): Speaking, S403 Online

#### Table 1.3.1.2.1.2

Proficiency Level by Grade (Percent): Speaking, S403 Online

|       |       | Sp    | eaking Pr | oficiency | Range |      |        |
|-------|-------|-------|-----------|-----------|-------|------|--------|
| Grade | 1     | 2     | 3         | 4         | 5     | 6    | Total  |
| 1     | 15.0% | 41.4% | 33.6%     | 9.7%      | 0.3%  | 0.0% | 100.0% |
| 2     | 14.8% | 44.0% | 35.3%     | 5.7%      | 0.2%  | 0.0% | 100.0% |
| 3     | 16.9% | 42.6% | 34.3%     | 5.9%      | 0.1%  | 0.0% | 100.0% |
| 4     | 7.2%  | 21.0% | 46.1%     | 24.3%     | 1.3%  | 0.1% | 100.0% |
| 5     | 10.9% | 26.1% | 43.4%     | 18.8%     | 0.8%  | 0.0% | 100.0% |
| 6     | 13.7% | 26.7% | 43.4%     | 16.0%     | 0.2%  | 0.0% | 100.0% |
| 7     | 17.6% | 31.1% | 38.9%     | 12.0%     | 0.4%  | 0.0% | 100.0% |
| 8     | 25.0% | 21.6% | 43.2%     | 9.9%      | 0.3%  | 0.0% | 100.0% |
| 9     | 31.2% | 34.1% | 31.5%     | 3.2%      | 0.0%  | 0.0% | 100.0% |
| 10    | 28.5% | 37.5% | 31.8%     | 2.1%      | 0.0%  | 0.0% | 100.0% |
| 11    | 31.4% | 29.7% | 37.4%     | 1.4%      | 0.0%  | 0.0% | 100.0% |
| 12    | 32.1% | 27.5% | 38.9%     | 1.5%      | 0.0%  | 0.0% | 100.0% |

# 1.3.2. Composites

1.3.2.1. Oral Composite

1.3.2.1.1. By Cluster

#### Table 1.3.2.1.1.1

|         |        | Oral Language Proficiency Range |         |         |        |        |         |  |  |  |
|---------|--------|---------------------------------|---------|---------|--------|--------|---------|--|--|--|
| Cluster | 1      | 2                               | 3       | 4       | 5      | 6      | Total   |  |  |  |
| 1       | 16,268 | 20,630                          | 56,868  | 48,739  | 24,819 | 2,567  | 169,891 |  |  |  |
| 2–3     | 33,932 | 66,879                          | 131,052 | 98,836  | 19,089 | 579    | 350,367 |  |  |  |
| 4–5     | 11,453 | 14,509                          | 58,346  | 116,889 | 80,314 | 18,505 | 300,016 |  |  |  |
| 6–8     | 21,611 | 32,862                          | 94,752  | 87,676  | 18,726 | 2,709  | 258,336 |  |  |  |
| 9–12    | 51,701 | 62,090                          | 112,882 | 47,743  | 6,177  | 676    | 281,269 |  |  |  |

Proficiency Level by Cluster (Count): Oral, S403 Online

#### Table 1.3.2.1.1.2

Proficiency Level by Cluster (Percent): Oral, S403 Online

|         |       | Oral Language Proficiency Range123456 |       |       |       |      |        |  |  |  |  |
|---------|-------|---------------------------------------|-------|-------|-------|------|--------|--|--|--|--|
| Cluster | 1     |                                       |       |       |       |      |        |  |  |  |  |
| 1       | 9.6%  | 12.1%                                 | 33.5% | 28.7% | 14.6% | 1.5% | 100.0% |  |  |  |  |
| 2–3     | 9.7%  | 19.1%                                 | 37.4% | 28.2% | 5.4%  | 0.2% | 100.0% |  |  |  |  |
| 4–5     | 3.8%  | 4.8%                                  | 19.4% | 39.0% | 26.8% | 6.2% | 100.0% |  |  |  |  |
| 6–8     | 8.4%  | 12.7%                                 | 36.7% | 33.9% | 7.2%  | 1.0% | 100.0% |  |  |  |  |
| 9–12    | 18.4% | 22.1%                                 | 40.1% | 17.0% | 2.2%  | 0.2% | 100.0% |  |  |  |  |

# 1.3.2.1.2. By Grade

## Table 1.3.2.1.2.1

|       |        | 0      | ral Langu | age Profi | iciency Ra | ange   |         |
|-------|--------|--------|-----------|-----------|------------|--------|---------|
| Grade | 1      | 2      | 3         | 4         | 5          | 6      | Total   |
| 1     | 16,268 | 20,630 | 56,868    | 48,739    | 24,819     | 2,567  | 169,891 |
| 2     | 17,801 | 37,002 | 65,597    | 43,223    | 10,297     | 416    | 174,336 |
| 3     | 16,131 | 29,877 | 65,455    | 55,613    | 8,792      | 163    | 176,031 |
| 4     | 5,431  | 7,476  | 31,198    | 63,240    | 47,417     | 11,186 | 165,948 |
| 5     | 6,022  | 7,033  | 27,148    | 53,649    | 32,897     | 7,319  | 134,068 |
| 6     | 5,443  | 10,010 | 36,443    | 35,147    | 7,150      | 780    | 94,973  |
| 7     | 7,387  | 11,217 | 31,350    | 27,528    | 5,924      | 996    | 84,402  |
| 8     | 8,781  | 11,635 | 26,959    | 25,001    | 5,652      | 933    | 78,961  |
| 9     | 15,570 | 21,438 | 35,073    | 16,559    | 2,123      | 242    | 91,005  |
| 10    | 13,268 | 16,281 | 30,334    | 13,051    | 1,798      | 209    | 74,941  |
| 11    | 12,537 | 14,164 | 26,569    | 11,222    | 1,535      | 154    | 66,181  |
| 12    | 10,326 | 10,207 | 20,906    | 6,911     | 721        | 71     | 49,142  |

Proficiency Level by Grade (Count): Oral, S403 Online

#### Table 1.3.2.1.1.2

Proficiency Level by Grade (Percent): Oral, S403 Online

|       |       | 0     | ral Langu | age Profi | ciency Ra | inge |        |
|-------|-------|-------|-----------|-----------|-----------|------|--------|
| Grade | 1     | 2     | 3         | 4         | 5         | 6    | Total  |
| 1     | 9.6%  | 12.1% | 33.5%     | 28.7%     | 14.6%     | 1.5% | 100.0% |
| 2     | 10.2% | 21.2% | 37.6%     | 24.8%     | 5.9%      | 0.2% | 100.0% |
| 3     | 9.2%  | 17.0% | 37.2%     | 31.6%     | 5.0%      | 0.1% | 100.0% |
| 4     | 3.3%  | 4.5%  | 18.8%     | 38.1%     | 28.6%     | 6.7% | 100.0% |
| 5     | 4.5%  | 5.2%  | 20.2%     | 40.0%     | 24.5%     | 5.5% | 100.0% |
| 6     | 5.7%  | 10.5% | 38.4%     | 37.0%     | 7.5%      | 0.8% | 100.0% |
| 7     | 8.8%  | 13.3% | 37.1%     | 32.6%     | 7.0%      | 1.2% | 100.0% |
| 8     | 11.1% | 14.7% | 34.1%     | 31.7%     | 7.2%      | 1.2% | 100.0% |
| 9     | 17.1% | 23.6% | 38.5%     | 18.2%     | 2.3%      | 0.3% | 100.0% |
| 10    | 17.7% | 21.7% | 40.5%     | 17.4%     | 2.4%      | 0.3% | 100.0% |
| 11    | 18.9% | 21.4% | 40.1%     | 17.0%     | 2.3%      | 0.2% | 100.0% |
| 12    | 21.0% | 20.8% | 42.5%     | 14.1%     | 1.5%      | 0.1% | 100.0% |

### 1.3.2.2. Literacy Composite

1.3.2.2.1. By Cluster

#### Table 1.3.2.2.1.1

|         |        | Literacy Proficiency Range |         |         |        |       |         |  |  |  |
|---------|--------|----------------------------|---------|---------|--------|-------|---------|--|--|--|
| Cluster | 1      | 2                          | 3       | 4       | 5      | 6     | Total   |  |  |  |
| 1       | 32,238 | 82,333                     | 54,653  | 12,156  | 1,815  | 166   | 183,361 |  |  |  |
| 2–3     | 27,507 | 69,785                     | 176,879 | 84,437  | 13,102 | 1,520 | 373,230 |  |  |  |
| 4–5     | 17,330 | 26,139                     | 106,194 | 112,087 | 25,746 | 3,510 | 291,006 |  |  |  |
| 6–8     | 48,321 | 50,506                     | 105,223 | 47,174  | 3,835  | 255   | 255,314 |  |  |  |
| 9–12    | 33,533 | 55,593                     | 107,452 | 65,616  | 13,275 | 503   | 275,972 |  |  |  |

Proficiency Level by Cluster (Count): Literacy, S403 Online

## Table 1.3.2.2.1.2

Proficiency Level by Cluster (Percent): Literacy, S403 Online

|         |       | Literacy Proficiency Range |       |       |      |      |        |  |  |
|---------|-------|----------------------------|-------|-------|------|------|--------|--|--|
| Cluster | 1     | 2                          | 3     | 4     | 5    | 6    | Total  |  |  |
| 1       | 17.6% | 44.9%                      | 29.8% | 6.6%  | 1.0% | 0.1% | 100.0% |  |  |
| 2–3     | 7.4%  | 18.7%                      | 47.4% | 22.6% | 3.5% | 0.4% | 100.0% |  |  |
| 4–5     | 6.0%  | 9.0%                       | 36.5% | 38.5% | 8.8% | 1.2% | 100.0% |  |  |
| 6–8     | 18.9% | 19.8%                      | 41.2% | 18.5% | 1.5% | 0.1% | 100.0% |  |  |
| 9–12    | 12.2% | 20.1%                      | 38.9% | 23.8% | 4.8% | 0.2% | 100.0% |  |  |

# 1.3.2.2.2. By Grade

### Table 1.3.2.2.1

|       |        | Li     | iteracy Pr | oficiency | Range  |       |         |
|-------|--------|--------|------------|-----------|--------|-------|---------|
| Grade | 1      | 2      | 3          | 4         | 5      | 6     | Total   |
| 1     | 32,238 | 82,333 | 54,653     | 12,156    | 1,815  | 166   | 183,361 |
| 2     | 14,033 | 40,724 | 93,705     | 33,312    | 4,130  | 420   | 186,324 |
| 3     | 13,474 | 29,061 | 83,174     | 51,125    | 8,972  | 1,100 | 186,906 |
| 4     | 8,774  | 13,902 | 60,909     | 61,580    | 13,384 | 1,837 | 160,386 |
| 5     | 8,556  | 12,237 | 45,285     | 50,507    | 12,362 | 1,673 | 130,620 |
| 6     | 16,261 | 17,134 | 42,989     | 16,026    | 901    | 67    | 93,378  |
| 7     | 15,858 | 17,725 | 33,661     | 15,275    | 1,338  | 100   | 83,957  |
| 8     | 16,202 | 15,647 | 28,573     | 15,873    | 1,596  | 88    | 77,979  |
| 9     | 13,130 | 16,653 | 33,649     | 21,104    | 4,517  | 259   | 89,312  |
| 10    | 7,728  | 14,445 | 29,139     | 18,328    | 3,749  | 160   | 73,549  |
| 11    | 6,654  | 13,284 | 25,120     | 16,266    | 3,479  | 71    | 64,874  |
| 12    | 6,021  | 11,211 | 19,544     | 9,918     | 1,530  | 13    | 48,237  |

Proficiency Level by Grade (Count): Literacy, S403 Online

## Table 1.3.2.2.2.2

Proficiency Level by Grade (Percent): Literacy, S403 Online

|       |       | Lit   | eracy Pro | oficiency l | Range |      |        |
|-------|-------|-------|-----------|-------------|-------|------|--------|
| Grade | 1     | 2     | 3         | 4           | 5     | 6    | Total  |
| 1     | 17.6% | 44.9% | 29.8%     | 6.6%        | 1.0%  | 0.1% | 100.0% |
| 2     | 7.5%  | 21.9% | 50.3%     | 17.9%       | 2.2%  | 0.2% | 100.0% |
| 3     | 7.2%  | 15.5% | 44.5%     | 27.4%       | 4.8%  | 0.6% | 100.0% |
| 4     | 5.5%  | 8.7%  | 38.0%     | 38.4%       | 8.3%  | 1.1% | 100.0% |
| 5     | 6.6%  | 9.4%  | 34.7%     | 38.7%       | 9.5%  | 1.3% | 100.0% |
| 6     | 17.4% | 18.3% | 46.0%     | 17.2%       | 1.0%  | 0.1% | 100.0% |
| 7     | 18.9% | 21.1% | 40.1%     | 18.2%       | 1.6%  | 0.1% | 100.0% |
| 8     | 20.8% | 20.1% | 36.6%     | 20.4%       | 2.0%  | 0.1% | 100.0% |
| 9     | 14.7% | 18.6% | 37.7%     | 23.6%       | 5.1%  | 0.3% | 100.0% |
| 10    | 10.5% | 19.6% | 39.6%     | 24.9%       | 5.1%  | 0.2% | 100.0% |
| 11    | 10.3% | 20.5% | 38.7%     | 25.1%       | 5.4%  | 0.1% | 100.0% |
| 12    | 12.5% | 23.2% | 40.5%     | 20.6%       | 3.2%  | 0.0% | 100.0% |

#### 1.3.2.3. Comprehension Composite

1.3.2.3.1. By Cluster

#### Table 1.3.2.3.1.1

|         |        | Comprehension Proficiency Range |        |        |        |         |         |  |  |  |
|---------|--------|---------------------------------|--------|--------|--------|---------|---------|--|--|--|
| Cluster | 1      | 2                               | 3      | 4      | 5      | 6       | Total   |  |  |  |
| 1       | 13,495 | 27,464                          | 42,973 | 24,810 | 35,904 | 31,052  | 175,698 |  |  |  |
| 2–3     | 31,117 | 62,760                          | 81,288 | 48,459 | 68,168 | 66,185  | 357,977 |  |  |  |
| 4–5     | 11,462 | 23,957                          | 40,470 | 39,504 | 74,633 | 115,319 | 305,345 |  |  |  |
| 6–8     | 39,810 | 54,673                          | 60,416 | 39,584 | 40,341 | 28,016  | 262,840 |  |  |  |
| 9–12    | 41,855 | 69,840                          | 60,192 | 34,835 | 41,357 | 34,061  | 282,140 |  |  |  |

Proficiency Level by Cluster (Count): Comprehension, S403 Online

#### Table 1.3.2.3.1.2

Proficiency Level by Cluster (Percent): Comprehension, S403 Online

|         |       | Comprehension Proficiency Range |       |       |       |       |        |  |  |  |  |
|---------|-------|---------------------------------|-------|-------|-------|-------|--------|--|--|--|--|
| Cluster | 1     | 2                               | 3     | 4     | 5     | 6     | Total  |  |  |  |  |
| 1       | 7.7%  | 15.6%                           | 24.5% | 14.1% | 20.4% | 17.7% | 100.0% |  |  |  |  |
| 2–3     | 8.7%  | 17.5%                           | 22.7% | 13.5% | 19.0% | 18.5% | 100.0% |  |  |  |  |
| 4–5     | 3.8%  | 7.8%                            | 13.3% | 12.9% | 24.4% | 37.8% | 100.0% |  |  |  |  |
| 6–8     | 15.1% | 20.8%                           | 23.0% | 15.1% | 15.3% | 10.7% | 100.0% |  |  |  |  |
| 9–12    | 14.8% | 24.8%                           | 21.3% | 12.3% | 14.7% | 12.1% | 100.0% |  |  |  |  |

## 1.3.2.3.2. By Grade

## Table 1.3.2.3.2.1

|       |        | C      | ompreher | nsion Prof | ficiency <b>R</b> | ange   |         |
|-------|--------|--------|----------|------------|-------------------|--------|---------|
| Grade | 1      | 2      | 3        | 4          | 5                 | 6      | Total   |
| 1     | 13,495 | 27,464 | 42,973   | 24,810     | 35,904            | 31,052 | 175,698 |
| 2     | 13,969 | 33,380 | 43,050   | 25,596     | 33,885            | 28,586 | 178,466 |
| 3     | 17,148 | 29,380 | 38,238   | 22,863     | 34,283            | 37,599 | 179,511 |
| 4     | 4,667  | 12,384 | 21,932   | 21,539     | 42,432            | 65,903 | 168,857 |
| 5     | 6,795  | 11,573 | 18,538   | 17,965     | 32,201            | 49,416 | 136,488 |
| 6     | 11,983 | 20,786 | 23,988   | 15,617     | 16,304            | 7,904  | 96,582  |
| 7     | 13,690 | 18,150 | 19,709   | 12,848     | 12,035            | 9,644  | 86,076  |
| 8     | 14,137 | 15,737 | 16,719   | 11,119     | 12,002            | 10,468 | 80,182  |
| 9     | 13,056 | 24,046 | 19,428   | 10,980     | 12,822            | 10,820 | 91,152  |
| 10    | 10,940 | 17,835 | 16,506   | 9,408      | 10,921            | 9,562  | 75,172  |
| 11    | 9,819  | 15,689 | 13,609   | 7,962      | 10,681            | 8,830  | 66,590  |
| 12    | 8,040  | 12,270 | 10,649   | 6,485      | 6,933             | 4,849  | 49,226  |

Proficiency Level by Grade (Count): Comprehension, S403 Online

#### Table 1.3.2.3.2.2

Proficiency Level by Grade (Percent): Comprehension, S403 Online

|       |       | Co    | mprehen | sion Profi | ciency Ra | inge  |        |
|-------|-------|-------|---------|------------|-----------|-------|--------|
| Grade | 1     | 2     | 3       | 4          | 5         | 6     | Total  |
| 1     | 7.7%  | 15.6% | 24.5%   | 14.1%      | 20.4%     | 17.7% | 100.0% |
| 2     | 7.8%  | 18.7% | 24.1%   | 14.3%      | 19.0%     | 16.0% | 100.0% |
| 3     | 9.6%  | 16.4% | 21.3%   | 12.7%      | 19.1%     | 20.9% | 100.0% |
| 4     | 2.8%  | 7.3%  | 13.0%   | 12.8%      | 25.1%     | 39.0% | 100.0% |
| 5     | 5.0%  | 8.5%  | 13.6%   | 13.2%      | 23.6%     | 36.2% | 100.0% |
| 6     | 12.4% | 21.5% | 24.8%   | 16.2%      | 16.9%     | 8.2%  | 100.0% |
| 7     | 15.9% | 21.1% | 22.9%   | 14.9%      | 14.0%     | 11.2% | 100.0% |
| 8     | 17.6% | 19.6% | 20.9%   | 13.9%      | 15.0%     | 13.1% | 100.0% |
| 9     | 14.3% | 26.4% | 21.3%   | 12.0%      | 14.1%     | 11.9% | 100.0% |
| 10    | 14.6% | 23.7% | 22.0%   | 12.5%      | 14.5%     | 12.7% | 100.0% |
| 11    | 14.7% | 23.6% | 20.4%   | 12.0%      | 16.0%     | 13.3% | 100.0% |
| 12    | 16.3% | 24.9% | 21.6%   | 13.2%      | 14.1%     | 9.9%  | 100.0% |

#### 1.3.2.4. Overall Composite

1.3.2.4.1. By Cluster

## Table 1.3.2.4.1.1

|         |        | Overall Proficiency Range |         |         |        |       |         |  |  |  |
|---------|--------|---------------------------|---------|---------|--------|-------|---------|--|--|--|
| Cluster | 1      | 1 2 3 4 5 6               |         |         |        |       |         |  |  |  |
| 1       | 16,588 | 50,813                    | 78,148  | 16,688  | 2,640  | 145   | 165,022 |  |  |  |
| 2–3     | 25,566 | 63,080                    | 156,906 | 81,987  | 9,397  | 258   | 337,194 |  |  |  |
| 4–5     | 11,700 | 19,322                    | 78,782  | 116,417 | 32,854 | 3,266 | 262,341 |  |  |  |
| 6–8     | 28,917 | 46,543                    | 93,138  | 54,919  | 4,506  | 257   | 228,280 |  |  |  |
| 9–12    | 34,707 | 49,860                    | 104,471 | 51,698  | 6,656  | 200   | 247,592 |  |  |  |

Proficiency Level by Cluster (Count): Overall, S403 Online

#### Table 1.3.2.4.1.2

Proficiency Level by Cluster (Percent): Overall, S403 Online

|         |       | 0           | verall Pro | oficiency 1 | Range |      |        |  |  |  |  |  |
|---------|-------|-------------|------------|-------------|-------|------|--------|--|--|--|--|--|
| Cluster | 1     | 1 2 3 4 5 6 |            |             |       |      |        |  |  |  |  |  |
| 1       | 10.1% | 30.8%       | 47.4%      | 10.1%       | 1.6%  | 0.1% | 100.0% |  |  |  |  |  |
| 2–3     | 7.6%  | 18.7%       | 46.5%      | 24.3%       | 2.8%  | 0.1% | 100.0% |  |  |  |  |  |
| 4–5     | 4.5%  | 7.4%        | 30.0%      | 44.4%       | 12.5% | 1.2% | 100.0% |  |  |  |  |  |
| 6–8     | 12.7% | 20.4%       | 40.8%      | 24.1%       | 2.0%  | 0.1% | 100.0% |  |  |  |  |  |
| 9–12    | 14.0% | 20.1%       | 42.2%      | 20.9%       | 2.7%  | 0.1% | 100.0% |  |  |  |  |  |

## 1.3.2.4.2. By Grade

### Table 1.3.2.4.2.1

|       |        | 0      | verall Pro | oficiency | Range  |       |         |
|-------|--------|--------|------------|-----------|--------|-------|---------|
| Grade | 1      | 2      | 3          | 4         | 5      | 6     | Total   |
| 1     | 16,588 | 50,813 | 78,148     | 16,688    | 2,640  | 145   | 165,022 |
| 2     | 12,831 | 37,285 | 80,984     | 33,045    | 3,443  | 132   | 167,720 |
| 3     | 12,735 | 25,795 | 75,922     | 48,942    | 5,954  | 126   | 169,474 |
| 4     | 5,651  | 9,959  | 44,590     | 64,411    | 17,767 | 1,880 | 144,258 |
| 5     | 6,049  | 9,363  | 34,192     | 52,006    | 15,087 | 1,386 | 118,083 |
| 6     | 8,081  | 16,653 | 37,614     | 19,892    | 1,103  | 70    | 83,413  |
| 7     | 9,910  | 15,734 | 29,784     | 17,643    | 1,621  | 94    | 74,786  |
| 8     | 10,926 | 14,156 | 25,740     | 17,384    | 1,782  | 93    | 70,081  |
| 9     | 12,074 | 15,329 | 33,203     | 16,888    | 2,452  | 97    | 80,043  |
| 10    | 8,554  | 12,867 | 28,125     | 14,626    | 1,812  | 54    | 66,038  |
| 11    | 7,584  | 11,627 | 24,379     | 12,686    | 1,670  | 42    | 57,988  |
| 12    | 6,495  | 10,037 | 18,764     | 7,498     | 722    | 7     | 43,523  |

Proficiency Level by Grade (Count): Overall, S403 Online

## Table 1.3.2.4.2.2

Proficiency Level by Grade (Percent): Overall, S403 Online

|       |       | Ov    | erall Pro | ficiency <b>R</b> | ange  |      |        |
|-------|-------|-------|-----------|-------------------|-------|------|--------|
| Grade | 1     | 2     | 3         | 4                 | 5     | 6    | Total  |
| 1     | 10.1% | 30.8% | 47.4%     | 10.1%             | 1.6%  | 0.1% | 100.0% |
| 2     | 7.7%  | 22.2% | 48.3%     | 19.7%             | 2.1%  | 0.1% | 100.0% |
| 3     | 7.5%  | 15.2% | 44.8%     | 28.9%             | 3.5%  | 0.1% | 100.0% |
| 4     | 3.9%  | 6.9%  | 30.9%     | 44.6%             | 12.3% | 1.3% | 100.0% |
| 5     | 5.1%  | 7.9%  | 29.0%     | 44.0%             | 12.8% | 1.2% | 100.0% |
| 6     | 9.7%  | 20.0% | 45.1%     | 23.8%             | 1.3%  | 0.1% | 100.0% |
| 7     | 13.3% | 21.0% | 39.8%     | 23.6%             | 2.2%  | 0.1% | 100.0% |
| 8     | 15.6% | 20.2% | 36.7%     | 24.8%             | 2.5%  | 0.1% | 100.0% |
| 9     | 15.1% | 19.2% | 41.5%     | 21.1%             | 3.1%  | 0.1% | 100.0% |
| 10    | 13.0% | 19.5% | 42.6%     | 22.1%             | 2.7%  | 0.1% | 100.0% |
| 11    | 13.1% | 20.1% | 42.0%     | 21.9%             | 2.9%  | 0.1% | 100.0% |
| 12    | 14.9% | 23.1% | 43.1%     | 17.2%             | 1.7%  | 0.0% | 100.0% |

# 2 Analysis of Domains

The measurement model that forms the basis of the analysis for the development of ACCESS is the Rasch measurement model (Wright & Stone, 1979). Additional information on its use in the development of the ACCESS for ELLs assessment program is available in WIDA Consortium Technical Report No. 1, *Development and Field Test of ACCESS for ELLs* (Kenyon, 2006). The original ACCESS test was developed using Rasch measurement principles, and in that sense, the Rasch model guided all decisions throughout the development of the assessment and was notjust a tool for the statistical analysis of the data. Thus, for example, data based on Rasch fit statistics guided the inclusion, revision, or deletion of items during the development and field testing of the test forms and will continue to guide the refinement and further development of the test. All Rasch analyses are conducted using the Rasch measurement software program *Winsteps* (Linacre, 2006).

# Rasch Model for Dichotomous Scoring

For Listening and Reading, the dichotomous Rasch model is used as the measurement model. Mathematically, the measurement model may be presented as

$$\log(\frac{P_{ni1}}{P_{ni0}}) = B_n - D_i$$

where

 $P_{ni1}$  = probability of a correct response "1" by person "n" on item "i"  $P_{ni0}$  = probability of an incorrect response "0" by person "n" on item "i"  $B_n$  = ability of person "n"  $D_i$  = difficulty of item "i"

When the probability of a person getting a correct answer equals the probability of a person getting an incorrect answer (i.e., 50% probability of getting it right and 50% probability of getting it wrong),  $P_{ni1}/P_{ni0}$  is equal to 1. The log of 1 is 0. This is the point at which a person's ability equals the difficulty of an item. For example, a person whose ability is 1.56 on the Rasch logit scale encountering an item whose difficulty is 1.56 on the Rasch logit scale would have a 50% probability of answering that question correctly.

# Rasch Model for Polytomous Scoring

For the Writing and Speaking tasks, a Rasch-grouped rating scale model is used. Mathematically, this can be represented as

$$\log\left(\frac{P_{ngik}}{1 - P_{ngi(k-1)}}\right) = \beta_n - D_{gi} - F_{gk}$$

where

 $P_{ngik}$  = probability of person "n" on task "i" receiving a rating at level "k" on rating scale "g"  $P_{ngi(k-1)}$  = probability of person "n" on task "i" receiving a rating at level "k – 1" on rating scale "g" (i.e., the next lowest rating)

 $\beta_n$  = ability of person "n"

 $D_{gi}$  = difficulty of task "i" specific to rating scale "g"

 $F_{gk}$  = calibration of step "k" on rating scale "g"

The subscript "g" is a group index specifying the group of tasks to which task "i" belongs. It also identifies the scoring scale that was used for the group of tasks.

As described in Part 1 Section 3.2.3, ratings on the ACCESS Writing Scoring Scale range from 0, 1, 1+,..., 6 and the possible raw scores range from 0 to 9. All Writing tasks are scored using this scoring scale except for Grade 1 Tier A Tasks 1 and 2. The profiles of the responses to these two tasks do not fit the generic scoring scale well, so additional task-specific instructions are provided to raters. These instructions guide raters in applying a limited number of score points on the scoring scale to responses elicited by these two tasks. The possible ratings for Grade 1 Tier A Task 1 are 0 or 1, and the possible ratings for Grade 1 Tier A Task 2 are 0, 1, 1+, or 2. To simplify the year-to-year linking process, the Grade 1 Writing Tier A Task 1 is treated as a dichotomously scored task. The Grade 1 Writing Tier A Task 2 is modeled using a rating scale with a possible raw scores of 0 to 3. All other Writing tasks are modeled using a rating scale with possible rating scale is associated with the Grade 1 Writing Tier A Task 2, and the other rating scale is associated with all Writing tasks that are scored using the rating scale with raw score values 0–9.

For Speaking, Proficiency Level (PL) 1 tasks are modeled as a group on a 0–2 scale and PL 3 and PL 5 tasks are modeled as a group on a 0–4 scale (see Part 1 Section 3.2.4).

# Scale Scores and Proficiency Level Scores

Scale scores are calculated by transforming the person ability estimate via a scaling equation.

The following scaling equations are used to convert ability measures in logits to scale scores:

- L: (Ability Measure in Logits \* 37.571) + 316.637
- R: (Ability Measure in Logits \* 26.000) + 323.272
- W: (Ability Measure in Logits \* 26.851) + 303.332
- S: (Ability Measure in Logits \* 29.248) + 265.076

In the domains of Listening and Reading, the current ACCESS scale was established for the original paper-only version of the test and was maintained through the transition to an online and paper delivered test in the 2015–16 school year (Series 400). Evidence for scale maintenance in the transitional year is described elsewhere (Center for Applied Linguistics, 2016). In the

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domains of Writing and Speaking, a study was conducted in the summer of 2016 to reconstruct the logit scale (see Center for Applied Linguistics, 2017).

Proficiency level scores are interpretations of these scale scores in terms of the proficiency levels described in the WIDA ELD Standards. These interpretations derive from a series of standard setting studies, in which educators reviewed evidence from the test, either in the form of items for the selected response sections (Listening and Reading) or student portfolios for the constructed response sections (Writing and Speaking), to establish cut scores between the proficiency levels. The first standard setting study for ACCESS took place in 2005; it established cut scores for all four domains by grade-level cluster (Kenyon, 2006). The second cut score study took place in 2007; it established cut scores for all four domains by grade-level cluster (Kenyon, 2006). The second cut score study took place in 2007; it established cut scores for all four domains by grade-level cluster (Kenyon, 2006). The second cut score study took place in 2007; it established cut scores for all four domains by grade-level cluster (Kenyon, 2006). The second cut score study took place in 2007; it established cut scores for all four domains by grade level (Kenyon, Ryu, & MacGregor, 2013). These cut scores were used to derive proficiency level scores through the 2015–16 administration (Series 400) of ACCESS for ELLs. A third cut score study was conducted in summer 2016 (Cook & MacGregor, 2017). The purpose of this study was to re-examine cut scores for each of the proficiency levels in light of the migration from the paper-and-pencil–only assessment to both online and paper delivery, the revision of the Speaking test, and the influence of college- and career-ready standards. These new cut scores were first used for ACCESS Series 401 (2016–17 school year).

A proficiency level score consists of a two-digit decimal number (e.g., 4.5). The first digit represents the student's overall proficiency level range based on the student's scale score. The number to the right of the decimal is an indication of the proportion of the range between cut scores that the student's scale score represents. A score of 4.5, for example, tells us that the student is in PL 4 and that his or her scale score is halfway between the cut scores for PLs 4 and 5.

Unlike the scale scores, which form an interval scale and are continuous across grades from Kindergarten to Grade 12, proficiency level scores are dependent upon the grade a student was in when the assessment was administered. For example, a score of 350 in Listening would be interpreted as a PL score of 5.8 for a Grade 2 student, a 3.8 for a Grade 5 student, a 3.1 for a Grade 8 student, and a 2.3 for a Grade 12 student.

Because the bands between cut scores on the score scale vary in width, proficiency level scores should not be considered to form an interval scale. That is, the distance between PL scores 1.5 and 2.5 cannot be assumed to be equal to the distance between PL scores 2.5 and 3.5. Only scale scores should be used as interval measures. Proficiency level scores are at even intervals within a grade and proficiency level (e.g., in Grade 3, the distance between 3.1 and 3.2 is the same as the distance between 3.7 and 3.8), but they do not form an interval scale across proficiency levels.

# 2.1 Complete Item or Task Analysis and Summary

The tables in this section provide a summary of the analyses of the items (for Listening and Reading) or tasks (for Writing and Speaking), along with analyses of each item or task. These tables have either two parts (in the case of Listening and Reading) or three parts (in the case of Writing and Speaking). The first part of the table gives a summary of the total set of items or tasks on the form. The second part provides statistics pertaining to the individual items or tasks, and the third part (for Writing and Speaking only) expresses raw score distributions by task.

Statistics included across these three parts include item or task difficulties in logits, the number of items or tasks on the form, the average p value (for forms with selected-response items), and the Rasch model fit statistics.

For Listening and Reading, items form a pool for the multistage adaptive tests, and tables in this section provide information on every item in the grade-level cluster. For Writing, separate tables are provided for Tier A and Tier B/C forms, by grade-level cluster. For Speaking, which has tasks that are shared between Tier A and Tier B/C, there is one table for each grade-level cluster, which provides information on every task in the grade-level cluster.

All Rasch analyses were conducted using the Rasch measurement software program *Winsteps* (Linacre, 2006). When speaking of the measure of person ability, we use the term *ability measure* (rather than *theta*, used commonly when discussing models based on item response theory). When speaking of the measure of how hard an item is, we use the term *item difficulty measure* (rather than *b parameter*, used commonly when discussing models based on item response theory). *Step measures* refer to the calibration of the steps in the Rasch rating scale model presented above. All three measures (ability, difficulty, and step) are expressed in terms of Rasch logits, which then are converted into scores on the ACCESS score scale for reporting purposes.

Fit statistics for the Rasch model are calculated by comparing the observed empirical data with the data that would be expected to be produced by the Rasch model if the data fit the model perfectly. Outfit mean square statistics are influenced by outliers. For example, a difficult item that some low-ability examinees get correct—for reasons unknown—will have a high outfit mean square statistic. Infit mean square statistics are influenced by unexpected patterns of observations by persons on items that are roughly targeted for them and generally indicate a more serious measurement problem. The expectation for both of these statistics is 1.00, and values near 1.00 are not of great concern. Values less than 1.00 indicate that the observations are too predictable and thus redundant, but are not of great concern. High values are of greater concern.

Linacre (2002) provided more guidance on how to interpret these statistics for dichotomous items. He writes:

• Values greater than 2.0 "distort or degrade the measurement system."

- Values between 1.5 and 2.0 are "unproductive for construction of measurement, but not degrading."
- Values between 0.5 and 1.5 should be considered "productive for measurement."
- Values below 0.5 are "less productive for measurement, but not degrading."

Linacre also stated in his guidance that infit problems are more serious to the construction of measurement than are outfit problems.

Because conservative guidelines were followed in the development of ACCESS for ELLs, the vast majority of dichotomous items on the test forms have mean square fit statistics in the range of 0.5 and 1.5; thus, they fit the range that is "productive for measurement" according to the guidelines above.

Since performance tasks are constructed and scored very differently from dichotomous items, it is not as straightforward to apply this same guidance to interpret these fit statistics for performance tasks that were scored polytomously. Some performance tasks that were designed to elicit a restricted range of performances (for example, very easy tasks where it is expected that most students will get the highest score) can cause the model to predict the data too well (overfitting). Conversely, when performance tasks are scored using a very wide rubric scale such as the case with ACCESS for ELLs Writing tasks, sometimes unmodeled noise or other sources of variance in the data will cause the model to underpredict the data (underfitting). Overall, for ACCESS for ELLs performance tasks, overfitting is more common than underfitting. Underfitting indicates that the task is less productive for measurement, but it is not degrading to the measurement of student performance.

The first section of the Complete Item/Task Analysis and Summary table provides information about the total set of items or tasks and includes the item type (selected response or constructed response), the average item difficulty (in logits), the number of items, the average p value (for Listening and Reading only), the average infit mean square, and the average outfit mean square.

The second section of these tables presents results of the analyses of all of the items or tasks on the test form. The first column provides the unique item name. The second column in this section presents the item difficulty in logits. The third column provides information on whether the item or task served as an anchor item or task. For dichotomously scored items (Listening and Reading), the fourth column shows the p value (percentage of correct answers on that item). The next two columns show the Rasch fit statistics for the item or task.

In addition, Writing and Speaking tables have a final section which provides raw score distributions by task.

# 2.1.1 Listening

2.1.1.1 Grade 1

#### Table 2.1.1.1

#### Complete Item Analysis and Summary: List 1 S403 Online

| Average<br>Image: Definition of the part of the | Complete item Analysis and Summary. List 1 5403 Oni     | lile |  |  |
|---|---|------|--|--|
| Imm Type         Imm Ingents         No. of Items         Pendine         Square         Square           Statistic Response         1.1.0         54         0.55         0.97         0.97           Immediate Response   |   |      |  |  |
| Imm Type         im logibil         No. of Items         Pendue         Square         Square           Schend Response         1.1.6         54         0.55         0.97         697           Imm         Imm         Imm         Statistics         Statistics         Statistics           Imm         Immonities         Archared         Pendue         Ming         Ming           Immonities         Archared         Yes         0.97         0.90         0.52           Immonities         Archared         Yes         0.97         0.90         0.52           Immonities         1.45         Yes         0.97         0.90         0.52           Immonities         1.45         Yes         0.97         0.90         0.52           Immonities         1.40         Yes         0.37         1.18         1.74           Immonities         1.40         Yes         0.37         1.18         1.91           Immonities         1.40         Yes         0.37         1.18         1.91           Immonities         1.40         Yes         0.57         1.16         1.93           Immonities         1.40         Yes         0.57         1.93  |   |      |  |  |
| Identified         J ( )         S4         U,G3         U,G7         U,G7           Fit         Iteran         Statistics         Statistics         Statistics           Units         Iteran         Minut         Minut         Minut           Units         Iteran         1.1.0         Minut         Minut           Units         Iteran         1.1.0         Minut         Minut           Units         Iteran         0.97         0.97         0.93           Units         Iteran         1.1.0         Minut         Minut           Units         Iteran         1.1.0         0.97         0.93           Units         Iteran         1.1.0         0.97         0.93           Units         Iteran         1.1.0         0.76         1.18         1.39           Units         Iteran         1.1.0         0.76         1.18         1.39           Units         Iteran         1.1.0         1.50         0.53         0.13         0.13           Units         Iteran         1.1.0         1.50         0.51         0.16         0.15           Units         Iteran         1.1.0         1.50         0.57         0.1   |   |      |  |  |
| Difficulty         Infl         Outfit           Name         inflogits)         Andorreal?         Pexable         Minog           Christer Definitions Print Science (2000)         -1.98         Yes         0.97         1.96         0.82           Christer Definitions Print Science (2000)         -1.98         Yes         0.47         1.18         1.74           Christer Definitions Print Science (2000)         -1.50         0.57         1.26         2.01           Christer Minister Print Science (2000)         -1.50         0.57         1.18         1.59           Christer Minister Minister Christer         -1.93         0.85         0.17         1.15           Christer Minister Minister Christer         -1.93         Yes         0.61         0.88           Christer Minister Minister Christer         -1.93         Yes         0.63         0.94         0.85           Christer Minister Minister Minister Minister Minister         -1.93         Yes         0.63         0.92         0.85           Christer Minister Minister Minister Minister         -1.93         Yes         0.63         0.92         0.85           Christer Minister Minister Minister         -1.90         Yes         0.63         0.92         0.85           Ch   | Salastal Decrease                                       |      |  |  |
| Difficulty         Infl         Outfit           Name         inflogits)         Andorreal?         Pexable         Minog           Christer Definitions Print Science (2000)         -1.98         Yes         0.97         1.96         0.82           Christer Definitions Print Science (2000)         -1.98         Yes         0.47         1.18         1.74           Christer Definitions Print Science (2000)         -1.50         0.57         1.26         2.01           Christer Minister Print Science (2000)         -1.50         0.57         1.18         1.59           Christer Minister Minister Christer         -1.93         0.85         0.17         1.15           Christer Minister Minister Christer         -1.93         Yes         0.61         0.88           Christer Minister Minister Christer         -1.93         Yes         0.63         0.94         0.85           Christer Minister Minister Minister Minister Minister         -1.93         Yes         0.63         0.92         0.85           Christer Minister Minister Minister Minister         -1.93         Yes         0.63         0.92         0.85           Christer Minister Minister Minister         -1.90         Yes         0.63         0.92         0.85           Ch   | Selected Response                                       |      |  |  |
| Difficulty         Infl         Outfit           Name         inflogits)         Andorreal?         Pexable         Minog           Christer Definitions Print Science (2000)         -1.98         Yes         0.97         1.96         0.82           Christer Definitions Print Science (2000)         -1.98         Yes         0.47         1.18         1.74           Christer Definitions Print Science (2000)         -1.50         0.57         1.26         2.01           Christer Minister Print Science (2000)         -1.50         0.57         1.18         1.59           Christer Minister Minister Christer         -1.93         0.85         0.17         1.15           Christer Minister Minister Christer         -1.93         Yes         0.61         0.88           Christer Minister Minister Christer         -1.93         Yes         0.63         0.94         0.85           Christer Minister Minister Minister Minister Minister         -1.93         Yes         0.63         0.92         0.85           Christer Minister Minister Minister Minister         -1.93         Yes         0.63         0.92         0.85           Christer Minister Minister Minister         -1.90         Yes         0.63         0.92         0.85           Ch   |   |      |  |  |
| fame         fin.logits/         Ambured?         P-value         Minsq           1110. St.1.0.0011000 prof. St.0001 St.0001 St.0001         -4.538         Yes         0.977         0.990         0.82           1110. St.1.0.0011000 prof. St.0001 St.0  |   |      |  |  |
| 1000.3 CONTRACTOR 000000000000000000000000000000000000  |   |      |  |  |
| 1014.6.4 f. Oorlet Home, P100, Server, J. (2007)       1,15       Yes       0,37       1,26       2,01         10111, 31, M. Konnig Monig, 30, Server, J. (2008)       -1,130       0,82       1,17       1,18         10111, 31, M. Konnig Monig, 30, Server, J. (2008)       -1,130       0,82       1,17       1,18         10111, 31, M. Konnig Monig, 30, Server, J. (2007)       -1,330       Yes       0,61       0,88       0,83         10114, 51, M. Konnig Monig, 20, Server, J. (2007)       -2,300       Yes       0,67       1,00       1,00         1014, 51, M. Konnig Monig, 20, Server, J. (2007)       -2,300       Yes       0,67       0,93       0,83         1014, 51, M. Konnig, 10, Const, 21, (2007)       -2,300       Yes       0,67       0,92       0,83         1014, 54, K. Konnig, 10, Const, 21, (2007)       -2,317       Yes       0,63       0,92       0,83         1014, 54, K. Konnig, 10, Const, 21, (2007)       -2,325       Yes       0,41       0,97       0,97         1014, 54, K. Konnig, 10, Const, 21, (2007)       -2,325       Yes       0,41       0,97       0,97         1014, 54, K. Konnig, 10, Const, 21, (2007)       -2,355       Yes       0,341       0,97       0,97         1014, 54, K. Konnig, 10, Const, 11, (2017) <t< td=""><td>Name</td><td></td><td></td><td></td></t<>  | Name  |      |  |  |
| 1014.6.4 f. Oorlet Home, P100, Server, J. (2007)       1,15       Yes       0,37       1,26       2,01         10111, 31, M. Konnig Monig, 30, Server, J. (2008)       -1,130       0,82       1,17       1,18         10111, 31, M. Konnig Monig, 30, Server, J. (2008)       -1,130       0,82       1,17       1,18         10111, 31, M. Konnig Monig, 30, Server, J. (2007)       -1,330       Yes       0,61       0,88       0,83         10114, 51, M. Konnig Monig, 20, Server, J. (2007)       -2,300       Yes       0,67       1,00       1,00         1014, 51, M. Konnig Monig, 20, Server, J. (2007)       -2,300       Yes       0,67       0,93       0,83         1014, 51, M. Konnig, 10, Const, 21, (2007)       -2,300       Yes       0,67       0,92       0,83         1014, 54, K. Konnig, 10, Const, 21, (2007)       -2,317       Yes       0,63       0,92       0,83         1014, 54, K. Konnig, 10, Const, 21, (2007)       -2,325       Yes       0,41       0,97       0,97         1014, 54, K. Konnig, 10, Const, 21, (2007)       -2,325       Yes       0,41       0,97       0,97         1014, 54, K. Konnig, 10, Const, 21, (2007)       -2,355       Yes       0,341       0,97       0,97         1014, 54, K. Konnig, 10, Const, 11, (2017) <t< td=""><td>1.L01A_S_L_Go ingHo me_P_100_S creen_2_12445</td><td></td><td></td><td></td></t<>  | 1.L01A_S_L_Go ingHo me_P_100_S creen_2_12445            |      |  |  |
| 10111 - 31. Morning Menny, 402. Series, 2. Clow         -1.30         0.76         1.48         1.39           10111 - 31. Morning Menny, 402. Series, 2. Clow         -1.93         0.822         1.17         1.18           10111 - 31. Morning Menny, 402. Series, 2. Clow         -1.93         Yes         0.78         1.94         0.83           10132 I. A. Condot of bits, P. 100. Series, 3. Clow         -2.39         Yes         0.67         1.00         1.00           10132 I. A. Condot of bits, P. 100. Series, 3. Clow         -2.39         Yes         0.63         1.92         0.83           10132 I. A. Condot of bits, P. 100. Series, 3. Clow         -2.417         Yes         0.63         1.92         0.83           10132 I. A. Condot of bits, P. 100. Series, 3. Clow         -3.427         Yes         0.63         1.92         0.88           10142 M. A. Conseque fields, 119. Difered, 2.000. Series, 3. Clow         -2.255         Yes         0.41         0.97         0.97           10142 M. A. Conseque fields, 119. Difered, 2.000. Series, 3. Clow         -2.255         Yes         0.50         1.00         1.00           10117 S. Screenge fields, 119. Difered, 2.000. Series, 3. Clow         -2.241         Yes         0.36         1.01         1.02           11115 S. Cloweres fields, 110. Series, 1.1001  |   |      |  |  |
| 101013.31.Mining/Manage/022Screed.31.0000       -1.93       0.82       1.17       1.18         101013.31.Mining/Manage/022Screed.31.0000       -1.50       Yes       0.78       0.94       0.83         101013.31.Mining/Manage/022Screed.31.0000       -3.39       Yes       0.61       0.88       0.83         101014.14.Condumentation of the Same and 10001       -3.39       Yes       0.63       0.92       0.67         101014.14.Condumentation of the Same and 10001       -3.39       Yes       0.63       0.92       0.67         101014.14.Condumentation of the Same and 10001       -3.37       Yes       0.63       0.92       0.88         101014.51.8.Comparition of the Conduct of the Same and 10001       -3.27       Yes       0.63       0.92       0.88         101014.51.8.Comparition of the Conduct of the Co   |   |      |  |  |
| 2.1010.31.50.1000 (P.00.5 Street, 2.1200)       -1.50.       Yes       0.678       0.94       0.43         2.1017.15.1000 (P.00.5 Street, 2.1200)       -3.39       Yes       0.61       0.88       0.83         2.1017.15.1000 (P.00.5 Street, 2.1200)       -3.39       Yes       0.63       0.92       0.87         2.1017.15.1000 (P.00.5 Street, 2.1200)       -3.17       Yes       0.63       0.92       0.87         2.1017.15.1000 (P.00.5 Street, 2.1200)       -3.27       Yes       0.63       0.92       0.88         2.1017.5.11.1000 (P.00.5 Street, 2.1200)       -3.27       Yes       0.63       0.92       0.88         2.1017.5.11.1000 (P.00.5 Street, 2.1000)       -2.23       Yes       0.41       0.97       0.97         2.1017.5.11.1001 (P.00.5 Street, 2.1000)       -2.255       Yes       0.50       1.00       1.00         2.1017.5.5.1001 (P.00.5001 (P.00.5001 (P.00.5 Street, 2.1000)       -2.41       Yes       0.46       1.01       1.02         2.1017.5.5.1001 (P.00.5001 (P.00.5 Street, 2.1000)       -2.97       Yes       0.57       0.94       0.92         2.1017.5.5.1001 (P.00.5001 (P.00.5 Street, 2.1000)       -2.03       0.36       0.92       0.92         2.1017.5.5.1001 (P.00.500 (P.00.5 Street, 2.1000)       -2.13 </td <td>4.L01B_SI_MorningMeeting_402_Screen_2_14897</td> <td></td> <td></td> <td></td>  | 4.L01B_SI_MorningMeeting_402_Screen_2_14897             |      |  |  |
| U01X_LX_0mbor of bin_P_00_S creen_2_2 Dzon         -3.39         Yes         0.01         0.88         0.83           U01X_LX_0mbor of bin_P_00_S creen_2_1 Dzon         -2.96         Yes         0.65         0.92         0.87           U01X_LX_0mbor of bin_P_00_S creen_2_1 Dzon         -3.17         Yes         0.66         0.92         0.88           U01X_LX_0mbor of bin_CP_00_S 200_S creen_2_1 Diso         -3.27         Yes         0.66         0.92         0.88           U01X_LX_0mbor of bin_CP_00_S 200_S creen_1_1 Diso         -2.23         Yes         0.41         0.97         0.97           2.00 K_M_X_D_Dravings to bin_CP_00_S 200_S creen_1_1 Diso         -2.55         Yes         0.50         1.00         1.00           2.01 C_M_X_D_Dravings to bin_CP_00_S 200_S creen_1_1 Diso         -2.55         Yes         0.46         1.01         1.02           2.01 C_M_X_D_Draving to bin_CP_00_S 200_S creen_1_1 Diso         -2.57         Yes         0.46         1.001         1.00           2.01 C_M_X_D_Draving to bin_CP_010_S 200_S creen_1_1 Diso         -2.57         Yes         0.46         1.01         1.02           2.01 C_M_X_D_Draving to p_1_0_S D_010_S creen_1_1 Diso         -1.40         Yes         0.46         0.91         0.92           2.01 C_M_X_D_Draving to D_1_010_S creen_1_1 Dis   | 5.L01B_SI_MorningMeeting_402_Screen_3_14898             |      |  |  |
| LUDA, LA, Ondoto (Europe, 3, 1200)       -22.96       Yes       0.57       1.00       1.00         LUDA, LA, Ondoto (Europe, 4, 100, 2)       -3.17       Yes       0.63       0.92       0.87         OLOBA, MA, Enverope, Robot, CEURO, ASO, 2)       -3.17       Yes       0.63       0.92       0.88         OLOBA, MA, Enverope, Robot, CEURO, ASO, 2)       -3.27       Yes       0.63       0.92       0.88         OLOBA, MA, Enverope, Robot, CEURO, ASO, 2)       -2.23       Yes       0.41       0.97       0.97         CLOBA, MA, Drawing, Robot, CEURO, ASO, 2)       -2.25       Yes       0.50       1.00       1.00         2LDC, SS, CompargIng, P.100, ASO, 5)       -2.130       -2.41       Yes       0.36       1.01       1.02         2LOC, SS, CompargIng, P.100, ASO, FLASTON, J.1300       -2.97       Yes       0.36       0.92       0.92         2LOB, SS, CompargIng, P.100, ASO, FLASTON, J.1491       -2.03       Yes       0.36       0.92       0.92         2LOB, SS, CompargIng, P.100, ASO, FLASTON, J.1493       -1.43       0.28       0.95       0.98         2LOB, SC, Properties OCO, Streen, J.1493       -1.43       0.28       0.95       0.98         2LOB, SC, Properties OCO, Streen, J.1493       -1.14       0.61 <td>6.L01B_SI_MormingMeeting_402_Screen_4_14899</td> <td></td> <td></td> <td></td>  | 6.L01B_SI_MormingMeeting_402_Screen_4_14899             |      |  |  |
| 1.01A, LA, Oundo n Hun, P. 100, Screen, J. 19902       -3, 17       Yes       0.63       0.92       0.87         01.01A, M.A. Drawinga Related F. 100, A2012, Screen, J. 19809       -3, 27       Yes       0.63       0.92       0.88         11.01A, M.A. Drawinga Related F. 100, A2012, Screen, J. 19809       -2, 23       Yes       0.41       0.97       0.97         21.01A, M.A. Drawinga Related T.P. 100, A2012, Screen, J. 19809       -2, 23       Yes       0.41       0.97       0.97         21.01C, S.S. Comparing Tag, F. 100, A2017, Screen, J. 19809       -2, 23       Yes       0.46       1.01       1.02         21.01C, S.S. Comparing Tag, F. 100, A2017, Screen, J. 19809       -2, 41       Yes       0.46       1.01       1.02         21.01C, S.S. Comparing Tag, F. 100, A2017, Screen, J. 19809       -2, 97       Yes       0.33       0.97       1.00         21.01C, S.S. Comparing Tag, F. 100, A2017, Screen, J. 19809       -2, 03       9, 78       0.35       0.97       1.00         21.01C, S.S. Comparing Tag, F. 100, A2017, Screen, J. 19809       -2, 03       9, 78       0.36       0.92       0.92         21.01C, S.S. Comparing Outplete, 402, Screen, J. 1483       -1, 43       0.36       0.92       0.98       0.92       0.98       0.101       0.99       0.98       0.101 </td <td>7.101A_EA_Outdo o (Fun_P-100_S-creen_2_12690</td> <td></td> <td></td> <td></td>   | 7.101A_EA_Outdo o (Fun_P-100_S-creen_2_12690            |      |  |  |
| 11.101.A. M.A. Drawinger Robot (JP 100, A202, Screen, 3, 1399)       -2, 23       Yes       0.41       0.97       0.97         21.101.A. M.A. Drawinger Robot (JP 100, A202, Screen, 3, 1399)       -2, 55       Yes       0.50       1.00       1.00         31.101.C. SS. CampingTrip, P. 100, A301FT, Screen, 2, 1390       -2, 41       Yes       0.46       1.01       1.02         41.101.C. SS. CampingTrip, P. 100, A301FT, Screen, 3, 1390       -1, 90       Yes       0.33       0.97       1.00         51.101.C. SS. CampingTrip, P. 100, A301FT, Screen, 4, 1380       -1, 90       Yes       0.36       0.92       0.92         51.101.C. SS. CampingTrip, P. 100, A301FT, Screen, 4, 1380       -2, 97       Yes       0.57       0.94       0.92         51.101.SC, P. reperiles OfObjeck, 402, Screen, 3, 14992       -3, 03       Yes       0.65       0.92       0.58         51.101.SC, P. reperiles OfObjeck, 402, Screen, 4, 1493       -1, 43       0.28       0.95       0.98       0.99       0.99       0.98       0.91       0.91       0.93       0.91       0.91       0.83       0.91       0.91       0.93       0.91       0.91       0.93       0.91       0.93       0.91       0.93       0.91       0.91       0.91       0.91       0.91       0.91   | 8.L01A_EA_Outdo o rFun_P-100_S creen_3_12691            |      |  |  |
| 11.101.A. M.A. Drawinger Robot (JP 100, A202, Screen, 3, 1399)       -2, 23       Yes       0.41       0.97       0.97         21.101.A. M.A. Drawinger Robot (JP 100, A202, Screen, 3, 1399)       -2, 55       Yes       0.50       1.00       1.00         31.101.C. SS. CampingTrip, P. 100, A301FT, Screen, 2, 1390       -2, 41       Yes       0.46       1.01       1.02         41.101.C. SS. CampingTrip, P. 100, A301FT, Screen, 3, 1390       -1, 90       Yes       0.33       0.97       1.00         51.101.C. SS. CampingTrip, P. 100, A301FT, Screen, 4, 1380       -1, 90       Yes       0.36       0.92       0.92         51.101.C. SS. CampingTrip, P. 100, A301FT, Screen, 4, 1380       -2, 97       Yes       0.57       0.94       0.92         51.101.SC, P. reperiles OfObjeck, 402, Screen, 3, 14992       -3, 03       Yes       0.65       0.92       0.58         51.101.SC, P. reperiles OfObjeck, 402, Screen, 4, 1493       -1, 43       0.28       0.95       0.98       0.99       0.99       0.98       0.91       0.91       0.93       0.91       0.91       0.83       0.91       0.91       0.93       0.91       0.91       0.93       0.91       0.93       0.91       0.93       0.91       0.91       0.91       0.91       0.91       0.91   | 9.LULA_LA_Outdo o iFun_P 100_S creen_4_12692            |      |  |  |
| 11.101A_NA_Drawings1R0 bord(P100_A202_Screen_3_1399)       -2.23       Yes       0.41       0.97       0.97         21.01A_MA_Drawings1R0 bord(P100_A202_Screen_3_1399)       -2.55       Yes       0.50       1.00       1.00         31.01C_SS_ComputeTrip_P100_A300FT_Screen_2_13808       -2.41       Yes       0.46       1.01       1.02         41.01C_SS_ComputeTrip_P100_A300FT_Screen_2_13808       -2.41       Yes       0.33       0.97       1.00         51.01C_SS_ComputeTrip_P100_A300FT_Screen_4_13809       -1.90       Yes       0.33       0.97       1.00         51.01C_SS_ComputeTrip_P100_A300FT_Screen_4_13809       -2.97       Yes       0.57       0.94       0.92         51.01C_SS_COmputeTrip_P100_A300FT_Screen_4_13809       -2.97       Yes       0.55       0.92       0.92         51.01C_SS_COmputeTrip_P100_A300FT_Screen_4_13809       -2.97       Yes       0.55       0.92       0.92         51.01C_SS_COmputeTrip_P100_A300FT_Screen_4_14912       -3.03       Yes       0.65       0.92       0.98         51.01C_SC_FT repetites 010bjeck_402_Screen_4_14923       -1.43       0.61       0.90       0.83         51.01C_SC_FT repetites 010bjeck_402_Screen_4_14837       -1.14       0.65       0.99       0.91         51.01C_SC_FT repetites 010bje  | 10.L01A_M A_Drawinga Ro bo t_P 100_A202_S creen_2_13889 |      |  |  |
| 13.L01C       JSL Camping Trip: P. 100, A301FT, Screen, 2, 13808       -2,41       Yes.       0.461       1.01       1.02         14.L01C       JSSL Camping Trip: P. 100, A301FT, Screen, 3, 13800       -1.90       Yes.       0.33       0.97       1.00         15.L01C       JSSL Camping Trip: P. 100, A301FT, Screen, 3, 13800       -2.97       Yes.       0.57       0.94       0.92         16.L01E       JSC. Properties OfObjects, 402, Screen, 2, 14951       -2.03       Ves.       0.365       0.92       0.92         17.L01B       JSC. Properties OfObjects, 402, Screen, 3, 14952       -3.03       Yes.       0.655       0.92       0.88         19.L01C       LA.WindyDay, 402, Screen, 3, 14953       -1.43       0.28       0.95       0.98         19.L01C       LA.WindyDay, 402, Screen, 3, 14953       -1.43       0.651       0.90       0.83         19.L01C       LA.WindyDay, 402, Screen, 3, 14836       -1.14       0.611       0.90       0.83         19.L01C       LA.WindyDay, 402, Screen, 3, 14837       -2.11       Yes       0.79       0.95       0.91         19.L01C       LA.WindyDay, 402, Screen, 3, 14837       -0.94       Yes       0.56       0.99       0.97         19.L01C       MA. RainyDay, P. 100, A301, Screen, 3, 13   |   |      |  |  |
| 44.101C       S.S. Camping Tup, P. 100, Add FT, Sergen, 4, 13809       -1.90       Yes       0.33       0.97       1.00         55.101C       S.S. Camping Tup, P. 100, Add FT, Sergen, 4, 13810       -2.97       Yes       0.57       0.94       0.92         65.101B       S.C. Properties Of Objects, 402, Screen, 2, 14051       -2.03       Yes       0.36       0.92       0.88         77.101B       S.C. Properties Of Objects, 402, Screen, 3, 14032       -3.03       Yes       0.65       0.92       0.88         97.101B       S.C. Properties Of Objects, 402, Screen, 4, 14053       -1.43       0.26       0.99       0.98         97.101C       J.A. Windy Day, 402, Screen, 2, 14836       -1.14       0.61       0.90       0.83         97.101C       J.A. Windy Day, 402, Screen, 4, 14835       -1.32       0.65       0.99       0.91         97.101C       J.A. Windy Day, 402, Screen, 4, 14835       -1.32       0.65       0.99       0.93         97.101C       J.A. Windy Day, 402, Screen, 4, 14835       -1.32       0.65       0.99       0.97         97.101C       J.A. Windy Day, 2010, Screen, 3, 13899       -0.94       Yes       0.56       0.99       0.97         97.101C       M.A. RainyDay, P. 100, A202, Screen, 3, 13899       -0.115   | 12.E01A_M A_Drawinga Ro bo t_P 100_A202_S creen_4_13891 |      |  |  |
| 33.L01C       2.S. CampingTrip, P. 100, A301FT, Screen, 4, 13810       -2.97       Yes       0.57       0.94       0.92         36.L01B       SC, Prosperties, ODbijsets, 402, Screen, 3, 14031       -2.03       Yes       0.65       0.92       0.92         57.L01B       SC, Prosperties, ODbijsets, 402, Screen, 3, 14032       -3.03       Yes       0.65       0.92       0.88         38.L01B       SC, Prosperties, ODbijsets, 402, Screen, 4, 14033       -1.43       0.28       0.95       0.98         9.L01C       LA, WindyDay, 402, Screen, 3, 14837       -1.14       0.61       0.90       0.83         9.L01C       LA, WindyDay, 402, Screen, 3, 14837       -2.11       Yes       0.79       0.95       0.91         11.L01C       LA, WindyDay, 402, Screen, 3, 14837       -1.32       0.65       0.96       0.93         21.L01C       MA, RainyDay, P. 100, A202, Screen, 3, 14838       -1.32       0.65       0.96       0.93         21.L01C       MA, RainyDay, P. 100, A202, Screen, 3, 14839       -0.94       Yes       0.56       0.99       0.97         21.L01C       MA, RainyDay, P. 100, A202, Screen, 3, 13899       -1.15       Yes       0.59       0.94       0.90   | 13.E01C _SS_CompingTrip_P_100_A301F T_Screen_2_13808    |      |  |  |
| 33.L01C       2.S. CampingTrip, P. 100, A301FT, Screen, 4, 13810       -2.97       Yes       0.57       0.94       0.92         36.L01B       SC, Prosperties, ODbijsets, 402, Screen, 3, 14031       -2.03       Yes       0.65       0.92       0.92         57.L01B       SC, Prosperties, ODbijsets, 402, Screen, 3, 14032       -3.03       Yes       0.65       0.92       0.88         38.L01B       SC, Prosperties, ODbijsets, 402, Screen, 4, 14033       -1.43       0.28       0.95       0.98         9.L01C       LA, WindyDay, 402, Screen, 3, 14837       -1.14       0.61       0.90       0.83         9.L01C       LA, WindyDay, 402, Screen, 3, 14837       -2.11       Yes       0.79       0.95       0.91         11.L01C       LA, WindyDay, 402, Screen, 3, 14837       -1.32       0.65       0.96       0.93         21.L01C       MA, RainyDay, P. 100, A202, Screen, 3, 14838       -1.32       0.65       0.96       0.93         21.L01C       MA, RainyDay, P. 100, A202, Screen, 3, 14839       -0.94       Yes       0.56       0.99       0.97         21.L01C       MA, RainyDay, P. 100, A202, Screen, 3, 13899       -1.15       Yes       0.59       0.94       0.90   | 14.L01C _SS_CampingTrip_P_100_A301FT_Screen_3_13809     |      |  |  |
| 16 L01B_SC_Properties OfObjects_402_Screen_2_14031       -2.03       Ves       0.36       0.92       0.92         17 L01B_SC_Properties OfObjects_402_Screen_3_14052       -3.03       Yes       0.65       0.92       0.88         18 L01B_SC_Properties OfObjects_402_Screen_4_14053       -1.43       0.28       0.95       0.98         19 L01C_LA_WindyDay_402_Screen_2_14836       -1.14       0.61       0.90       0.83         20 L01C_LA_WindyDay_402_Screen_4_14838       -1.32       0.65       0.99       0.91         21 L01C_LA_WindyDay_402_Screen_4_14838       -1.32       0.65       0.99       0.93         21 L01C_MA_HainyDay_P_100_A202_Screen_4_14838       -0.94       Yes       0.56       0.99       0.97         21 L01C_MA_HainyDay_P_100_A202_Screen_3_11899       -0.115       Yes       0.56       0.99       0.97         21 L01C_MA_HainyDay_P_100_A202_Screen_3_11899       -0.94       Yes       0.56       0.99       0.97   |   |      |  |  |
| 17 LULB_SC_P respensive ORObjects_402_Screen_3_14952       -3.03       Yes       0.65       0.92       0.88         18 LULB_SC_P respensive ORObjects_402_Screen_4_14953       -1.43       0.28       0.95       0.98         19 LULC_LA_WindyDay_402_Screen_4_14836       -1.14       0.61       0.90       0.83         20 LULC_LA_WindyDay_402_Screen_3_14837       -2.11       Yes       0.79       0.95       0.91         11 LULC_LA_WindyDay_402_Screen_3_14838       -1.32       0.65       0.99       0.93         21 LULC_LA_WindyDay_402_Screen_3_18898       -0.94       Yes       0.65       0.99       0.97         21 LULC_MA_RainyDay_P_100_A202_Screen_3_1899       -1.15       Yes       0.59       0.94       0.90       0.97  |   |      |  |  |
| 181:101.011.011.011.011.011.011.011.011.01  |   |      |  |  |
| 20.L01C       LA_WindyDay_402_Screen_3_14837       -2.11       Yes       0.79       0.95       0.91         21.L01C       LA_WindyDay_402_Screen_3_14838       -1.32       0.65       0.96       0.93         22.L01C       MA_RainyDay_P_100_A202_Screen_2_13898       -0.94       Yes       0.56       0.99       0.97         23.L01C       MA_RainyDay_P_100_A202_Screen_1_13899       -1.15       Yes       0.59       0.94       0.90   | 18:L01B SC Properties OfObjects 402 Screen 4 [4953]     |      |  |  |
| 20.L01C       LA_WindyDay_402_Screen_3_14837       -2.11       Yes       0.79       0.95       0.91         21.L01C       LA_WindyDay_402_Screen_3_14838       -1.32       0.65       0.96       0.93         22.L01C       MA_RainyDay_P_100_A202_Screen_2_13898       -0.94       Yes       0.56       0.99       0.97         23.L01C       MA_RainyDay_P_100_A202_Screen_1_13899       -1.15       Yes       0.59       0.94       0.90   | 19 FUEL LA WindyDay 402 Screen 2 14836                  |      |  |  |
| 21.L01C       LA_WindyDay_402       Screen_4_14838       -1.32       0.65       0.96       0.93         21.L01C       MA_BainyDay_P_100_A202_Screen_3_13898       -0.94       Yes       0.56       0.99       0.97         31.L01C       MA_BainyDay_P_100_A202_Screen_3_13899       -1.15       Yes       0.59       0.94       0.90   |   |      |  |  |
| E2:LDTC_MA_RainyDay_P_100_A202_S_creen_2_13898         -0.94         Yes         0.56         0.99         0.97           E3:LDTC_MA_RainyDay_P_100_A202_S_creen_3_13899         -1.15         Yes         0.59         0.94         0.90   |   |      |  |  |
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|  |  |   | stics  |
|  |  |   | Outlit |
|  |  |   | 0.87   |
| 26L01B_SS_ConstructionWorker_P100_A301FT_alt1_Streen_3_13803<br>27L01B_SS_ConstructionWorker_P100_A301FT_alt1_Streen_4_13804 |  |   | 0.07   |
| 27 EULE SS CONSTITUTION WORKER FILO ASULE STEELS CREETED IN  |  |   | 0.02   |
| 28 EUTC _SC_POTES (FILINAL P TOUS STREET 2 TOO)  |  |   | 0.92   |
| 29.L01C SC. Fores (Habitat, P.100, Screen, 3, 11668  |  |   | 0.01   |
| OLUIC SC Fores dilability P100, Screen 4, 11671  |  |   | 0.91   |
| 21 L01B LA_Chef_403_Screen_2_16531   |  |   | 0.90   |
| 32.1.0118 _LA_Chet_403_Screen_3_16533  |  |   | 0.93   |
| 3.L01B LA_Chcf_403_Screen_4_16535  |  |   | 0.94   |
| 14 L01B MA. Ones Tens Blocks _403_Screen_2_16640   |  |   | 0.93   |
| 551LULB_MA_Ones/Tens/Blocks_403_Screen_3_16641   |  |   | 0.96   |
| 16.L01B_MA_Ones Tens Blo cks_403_Screen_4_16642  |  |   | 0.94   |
| 57 L01B LA ASpecialDay P 100 a l(1 S creen 2, 13814  |  |   | 0.88   |
| 38 L01B _LA_ASpecialDay_P_100_a IILS creen_3_13815   |  |   | 1.03   |
| 39/L01B_LA_ASpecialDay_P_100_a IILS creen_4_13816  |  |   | 0.80   |
| 10.1.01C _MA_Shape Riddles _P100_S creen 2_12846   |  |   | 1.05   |
| ILLOIC_MA_Shipe Riddles_P100_S creen_3_12847   |  |   | 0.97   |
| 12.L01C _MA_Shape Riddles _P 100_S creen_4_12848   |  |   | 0.93   |
| 13.1.01B _SS_Scho o ICo mmunity_P 100_S creen_2_12745  |  |   | 0.96   |
| 14.L01B_SS_Scholo1Community_P100_Screen_3_12746  |  |   | 0.86   |
| 15 E01B _SS_Schold ICommunity_P 100_S creen_4_12754  |  |   | 0.91   |
| 16.L01B_SC_So.lids_P_100_a.h1_S-creen_2_13877  |  |   | 0.97   |
| 37.L01B_SC_So.lids_P.100_a.h1_S.creen_3_13878  |  |   | 0.89   |
| 18.L01B_SC_So.lids_P.100_a.l11_S.creen_4_13879   |  |   | 0.89   |
| 19 LOTC_LA_MeetThe Scientis L403_Screen_2_16558  |  |   | 0.94   |
| 01L01C_LA_MeetThe Scientis (_403_Screen_3_16559  |  |   | 0.99   |
| SEEURC LAS Moothle Sciencis (2015, Screen A, 16560   |  |   | 0.88   |
| 32 LUICMAFes_tivalFun_403_Screen_2_16648   |  |   | 0.93   |
| 33.LUTCMA_ FestivalFin_403_Screen_3_16649  |  |   | 1.01   |
| 34 EUTC - MA, Fostivillin a03, Science 4, 16650  |  |   | 1.05   |

#### 2.1.1.2 Grades 2–3

Complete Item Analysis and Summary: List 2-3 S403 Online

|  | Average |  | Average | Average |
|--|---------|--|---------|---------|
|  |         |  |         |         |
|  |         |  |         |         |
| Item Type  |         |  |         |         |
| Selected Response  |         |  |         |         |
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|  |         |  |         |         |
| 1.L23B_SLAnClass_P.100_Screen_2_12825                          |         |  |         |         |
| 2.1.23B_S1_ArtClas.s_P_100_S_creen_3_12828                     |         |  |         |         |
| 3.1.238_S1_ArtClass_P100_Screen_4_12830                        |         |  |         |         |
| 4.L23A_SI_ThunkYo.uCards_P-100_S-creen_2_13788                 |         |  |         |         |
| 5.L23A_SI_ThunkYo aCards_P 100_S creen_3_13789                 |         |  |         |         |
| 6.L23A_SI_ThankYo.uCards_P-100_S-creen_4_13790                 |         |  |         |         |
| 71.23A, LA_Mina AndGinger, Jc.P. 100_A202_S creen, 2.13797     |         |  |         |         |
| 8.1.23A_LA_Minii AndGinger_jc_P_100_A202_S creen_3_13798       |         |  |         |         |
| 9.L23A_LA_Mina AndGinger_jc_P_100_A202_S_creen_4_13799         |         |  |         |         |
| 10.L23B_MA_TellingTime_P_100_S creen_2_13904                   |         |  |         |         |
| 11 L23B_MA_TellingTime_P_100_S creen_3_13905                   |         |  |         |         |
| 12.1.238 _MA_TellingTime_P_100_S creen_4_13906                 |         |  |         |         |
| 15.L23A_S.S.AMapOfOakValley, P. 100_Screen_2, 12730            |         |  |         |         |
| 14.L23A_S.S.AMapOfOnkValley_P_100_Screen_3_12731               |         |  |         |         |
| 15.1.23A_S.S_AMapOfOakValley_P_100_S-creen_4_12732             |         |  |         |         |
| 16123C_SC_BirdAdaptations_P 100_S creen_2_11544                |         |  |         |         |
| 17.L23C_SC_BirdAdapations_P 100_S creen_3_11545                |         |  |         |         |
| 181230 SC: Bird Alleptitions : P100: Scoren: 4:11546           |         |  |         |         |
| 19 L23C LLA Emilys Ball-102 Screen 2: 14879                    |         |  |         |         |
| 20.1.23C.1.A. Emilys Ball_402_Screen_3_14883                   |         |  |         |         |
| 21.1.2.3C LA Emilys Ball_402_Screen_4_14884                    |         |  |         |         |
| 2212302 MA. GoningTo School LP 1001 Scorer 2, 12056            |         |  |         |         |
| 23 L23C, MA, Genting to School LP 100, Screen 3, 12957         |         |  |         |         |
| 24.L23C_MA_GettingTo Scholo LP 100_S creen_4_12971             |         |  |         |         |
| 251133C - SS- AMapOlOlik Valley - P - 100 - Storen - 2 - 12813 |         |  |         |         |

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| Norma   |       |      |              | Outht |
| - Autre   |       |      |              | 0.07  |
| 26123C_SS_AMapOrOakWalley_P=100_Sterven_3_12814       |       |      |              | 0.80  |
| 27.L23C_SS_AMapOtOakValley_P=100_S creen_4_12815      |       |      |              | 0.89  |
| 28.L23B_SC_WaterCycle_P=100_A202_Screen_2_13910       |       |      |              | 0.91  |
| 29 L23B_SC_WaterCycle_P=100_A202_Screen_3_13911       |       |      |              | 0.98  |
| 30.L23B_SC_WaterCycle_P=100_A202_S creen_4_13912      |       |      |              | 0.92  |
| 31.L23B_LA_Vis_itingAutho.r_403_Screen_2_16602        |       |      |              | 0.91  |
| 32.1.23B_LA_VisitingAuthor_403_Screen_3_16603         |       |      |              | 0.92  |
| 33.L23B_LA_VisitingAuthor_403_Screen_4_16604          |       |      |              | 0.92  |
| 34.L23B_MA_LinearMeas.urement_P_100_8_creen_2_12988   |       |      |              | 0.95  |
| 35.L23B_MA_LinearMeas.urement_P_100_S-creen_3_12990   |       |      |              | 0.99  |
| 36 L23B_MA_LinearMeas urement_P_100_S creen_4_12991   |       |      |              | 0.97  |
| 37.L23C_LA_Cro.wnAndThe Collits_P.100_S creen_2_12705 |       |      |              | 1.01  |
| 38.1.23C_LA_Cro.wnAndThe Co.ins_P_100_Screen_3_12706  |       |      |              | 0.92  |
| 59.1.23C LA_CrownAndThe Colins_P 100_S creen_4_12707  |       |      |              | 0.86  |
| 0.1.23B_MA_GettingTo Scho o I_P 100_S creen_2_12953   |       |      |              | 1.21  |
| 11.L23B_MA_GettingTo.Scho.o.L.P.100_S.creen_3_12954   |       |      |              | 1.03  |
| 42.L23B_MA_GettingTo Scholo 1_P-100_S creen_4/12955   |       |      |              | 1.07  |
| 3.1.23B_SS_AMapOlOakValley_P_100_S creen_2_12733      |       |      |              | 0.83  |
| 14.L23B_SS_AMapOlOakValley_P_100_Screen_3_12734       |       |      |              | 1.03  |
| 15.1.25B_SS_AMapOrOnkValley_P_100_Streen_4_12755      |       |      |              | 1.03  |
| 16.1.25B_SC_Habitats_P_100_S_creen_2_12785            |       |      |              | 0.93  |
| 17.L218_SC_Habitats_P_100_S creen_3_12786             |       |      |              | 0.90  |
| NET CALL SECTION OF THE IS DOWN                       |       |      |              | 0.90  |
| 9.1.23C LA, Visitur 403, Screen 2, 16652              |       |      |              | 0.73  |
| 201221C LAC Visiture 403, Screen 3, 16653             |       |      |              | 1.05  |
|   |       |      |              | 0.93  |
|   |       |      |              | 0.07  |
|   |       |      |              | 0.05  |
| 3.1.23C_MA_WritingWall_403_Screen_3_16685             |       |      |              |       |
| SSIL23C_MA_WillingWall_908_Screen_4_16686             | -0.93 | 0.88 | 0.96         | 0.88  |

#### 2.1.1.3 Grades 4–5

Complete Item Analysis and Summary: List 4-5 S403 Online

|   | Average |  | Average | Average |
|---|---------|--|---------|---------|
|   |         |  |         |         |
|   |         |  |         |         |
|   |         |  |         |         |
| Selected Response   |         |  |         |         |
|   |         |  |         |         |
|   |         |  |         |         |
|   |         |  |         |         |
|   |         |  |         |         |
| 1.L45A_S1_MorningArrivalAtClass_P100_Screen_2_12413       |         |  |         |         |
| 2.L45A_SI_MormingArrivalAtClasis_P_100_S-creen_3_12415    |         |  |         |         |
| 3.L45A_SI_MomingArrivalAtClass_P-100_Screen_4_12416       |         |  |         |         |
| 3.1.45B_SL_SchoolChibs_P.100_Screen_2_12386               |         |  |         |         |
| 5.L45B_S1_Schold IClubs_P-100_Screen_3_12394              |         |  |         |         |
| 5.L45B_S1_Schold IClinbs_P_100_Screen_4_12396             |         |  |         |         |
| 7.1.45B_1.A_B0 o kDis cus s to n_P-100_S creen_2_12571    |         |  |         |         |
| 3.L45B_LA_Bo o kDiscus s to n_P 100_S creen_3_12572       |         |  |         |         |
| 9.L45B_LA_Bo o kDis cus s to n_P 100_S creen_4_12573      |         |  |         |         |
| 10.L45B_MA_The Scholo (Mils colt_P 100_S creen_2_12917    |         |  |         |         |
| 11.L45B_MA_The Scholo (Masico LP 100_Screen_3_12918       |         |  |         |         |
| 12.L45B_MA_The Scholo (Mils colt_P-100_S creen_4_12919    |         |  |         |         |
| 13 L45A_S S_RomanTo o Is Artifacts_P 100_S creen_2_13024  |         |  |         |         |
| 14 L45A_S S_RomanTo o Is Artifacts_P 100_S creen_3_13025  |         |  |         |         |
| 15 L45A_S S_RomanTo o Is Artificts _P 100_S creen_4_13026 |         |  |         |         |
| 16.L45A_S_C_WindSpeed_P_100_S_creen_2_12792               |         |  |         |         |
| 17.L45A_S.C_WindSpeed_P_100_S creen_3_12793               |         |  |         |         |
| ISTASA_S C_WindSpeed_P_100_S creen_4_12704                |         |  |         |         |
| 1911/SC TA-BOORDIS associate P1001 Screen 2, 1258         |         |  |         |         |
| 20.1.45C T.A. Bolo kDiscussion, P.100 Screen, 3, 12583    |         |  |         |         |
| 21 L45C LA_Bo o kDis cus s io n_P 100_S creen_4_12585     |         |  |         |         |
| 22.1.458_MA_Garden_P_100_S creen_2_12596                  |         |  |         |         |
| 23 E45B MA. Girden JP 100 S crean 3: 12597                |         |  |         |         |
| 24 L45B_MA_Garden_P_100_S creen_4_12598                   |         |  |         |         |
| 251.45B SS: FurningInAncientEgypt 402 Screen 2:14945      |         |  |         |         |

|   |      |  | 1 | ť    |
|---|------|--|---|------|
|   |      |  |   |      |
|   |      |  |   |      |
| 26 L45B, SS FarmingInAncientEgypt 402, Screen 3, 14946  |      |  |   | 0.93 |
| 27.1458.282 FarmingInAncientEgypt.402.Screen: 4.14947   |      |  |   | 0.86 |
| 25.1.55.0.563 province Duran 402 Second 2, 1990         |      |  |   | 0.94 |
| 29/L/481/_SC_Dynamic Dunes402_Screen_3_14939            |      |  |   | 1.02 |
| 50 L4SB. SC. Dynamic Dunes - 402 Screen - 4, 14941      |      |  |   | 0.90 |
| 31 L45B LA, Los (Boutle 403, Screen 2, 16613            |      |  |   | 0.82 |
| 321.458 T.A. Los (Bortle 403, Somen 3, 16615            |      |  |   | 0.87 |
| 33145B LA Lo s Bo nic 403 Screen 4, 16616               |      |  |   | 0.92 |
| 34.1.45B. MA Fractio nBars 403 Screen 2, 16708          |      |  |   | 0.92 |
| 35 L45B MA Fractio nBars 403 Screen 3 16709             |      |  |   | 0.99 |
| 36.L45B MA Fractio nBars 403 Screen 4 16710             |      |  |   | 0.94 |
| 37.L45C_LA_GardenMys. (tery 402_Screen _2_14833         |      |  |   | 0.96 |
| 38.L45C_L/A_GandenMys_tery_402_Screen_3_14845           |      |  |   | 0.81 |
| 39 L45C LA_GardenMvs_tery_402_Screen_4_14846            |      |  |   | 1.04 |
| 40.L45C_MA_The School Masien t: P.100.S creen: 2_12942  |      |  |   | 1.07 |
| 41.1.45C_MA_The Schoor Max cort_P 100_S creen_3_12943   |      |  |   | 0.90 |
| 42.1.45C_MA_The School Masco t: P.100_Screen_4_12946    |      |  |   | 0.92 |
| 43.L45B_SS_RomanTo o Is Artifacts_P 100_S creen_2_13027 |      |  |   | 1.06 |
| H-L45B_SS_RomanTools Artifacts _P-100_S creen_3_13028   |      |  |   | 1.16 |
| 45.L45B_SS_RomanTo o Is Artifacts_P 100_S creen_4_13029 |      |  |   | 0.92 |
| 46.L45C_SC_From Rocks To So (LP 100_S creen_2_14212     |      |  |   | 1.01 |
| 47.L45C_SC_From Rocks To So (LP 100_S creen_3_14213     |      |  |   | 0.86 |
| 48.L4SC_SC_From Rocks To Soll_P.100_Screen_4_14214      |      |  |   | 1.09 |
| 49 L45B_LA_Ro Ic Mo delk _403_Screen_2_16618            |      |  |   | 0.62 |
| 50 L45B_LA_Rolle Moldels_403_Screen_3_16619             |      |  |   | 0.92 |
| SELERSP. LA ROLE Middle, 403: Science 4, 16620          |      |  |   | 0.95 |
| 52.L45B_MA_Schold Supplies _403_Screen_2_16712          |      |  |   | 0.99 |
| 53.L45B_MA_Scholo ISupplies _403_Screen_3_16713         |      |  |   | 1.03 |
| SEL45B_MACSenolo ISupplies_405_Screen_4_16719           | 2.68 |  |   | 0.99 |

#### 2.1.1.4 Grades 6–8

Complete Item Analysis and Summary: List 6-8 S403 Online

|  | Average |  | Average | Average |
|--|---------|--|---------|---------|
|  |         |  |         | Outfit  |
|  |         |  |         | Mean    |
| Item Type  |         |  |         | Square  |
| Selected Response  |         |  |         | 0.99    |
|  |         |  |         | 14-     |
|  |         |  |         | ting    |
|  |         |  |         | Outfit  |
| Name   |         |  |         | Mnsq    |
| LL68A, S.I. TalentShow, P.100, Screen, 2, 12454  |         |  |         |         |
|  |         |  |         | 1.03    |
| 2.1.68.A. SI. TolentSho w. P.100, Screen, 3, 12455   |         |  |         | 1.01    |
| 3.1.68A_SI_TalentSho w_P.100_S creen_4_12456<br>4.1.68B_SI_AmborP roject_P.100_S creen_2_12380 |         |  |         | 1.02    |
| 5.1688 SE Autor Project P.100 Street 3, 12380  |         |  |         | 192     |
|  |         |  |         | 1.2.5   |
| 6 E688_ST_Autho rP fo jeet_P 100_S creen_4_E2382   |         |  |         | 0.90    |
| 7.L68A_LA_Remote Control P 100_S creen_2_12849   |         |  |         | 0.82    |
| 8 LOSA_LA_Remote Contro UP 100/S creen 3, 12850  |         |  |         | 1.12    |
| 9.L68A_LA_Remin te Contro LP 100_S creen_4_12922   |         |  |         | 1.05    |
| 10.L68B _MA_Class Pires identSurvey_P 100_S creen_2_13039                                      |         |  |         | 0.94    |
| 11.L68B_MA_Class.P.res.identSurvey_P.100_S.creen_3_13040                                       |         |  |         | 0.87    |
| 12.L68B _MA_Class P residentSurvey_P 100_S creen_4_13041                                       |         |  |         | 1.08    |
| 13.L68A_S S_Types OfGo veniment_P 100_S creen_2_13060  |         |  |         | 0.86    |
| 14.L68A_S S_Types OlGo veriment_P 100_S creen_3_13061  |         |  |         | 0.86    |
| 15.L68A_S_S_Types OIGo veriment_P-100_S creen_4_13062  |         |  |         | 1.03    |
| 16.L68A_S.C_Nature Trail_P-100_S-creen_2_12884   |         |  |         | 0.90    |
| 17.L68A_S.C_Nature Trail_P 100_S creen_3_12885   |         |  |         | 0.90    |
| 18.L68A_S C_Nature Trail_P 100_S creen_4_12886   |         |  |         | 0.89    |
| 191688B - EA-Bistwood - HD. Scient 2 - EB80  |         |  |         | 1.12    |
| 20.1.688 T.A. Eastwood, 402. Screen 3, 14851   |         |  |         | 1.05    |
| 21 L68B LA Eas two o d. 402 Screen .4, 14852   |         |  |         | 1.03    |
| 22.1.688 MA WaterCo o ler_402 Screen_2_14915   |         |  |         | 0.85    |
| 231 ASB MAX WaterCose Jac 302 Stereor St 14916   |         |  |         | 1.01    |
| 24.L68B_MA_WaterCo. o. ler_402_Screen_4_14917  |         |  |         | 0.98    |
| EXECUTE ORDERS OF STREET   |         |  |         | 0.93    |

|  |  | tics   |
|--|--|--------|
|  |  | Outfit |
|  |  | Mnsq   |
|  |  | 0.97   |
|  |  | 0.92   |
|  |  | 0.97   |
|  |  | 0.96   |
|  |  | 1.03   |
|  |  | 0.92   |
|  |  | 0.88   |
|  |  | 0.92   |
|  |  | 0.91   |
|  |  | 0.96   |
|  |  | 0.97   |
|  |  | 0.95   |
|  |  | 1.03   |
|  |  | 1.15   |
|  |  | 1.07   |
|  |  | 1.07   |
|  |  | 1.04   |
|  |  | 1.00   |
|  |  | 1.01   |
|  |  | 0.88   |
|  |  | 0.93   |
|  |  | 0.91   |
|  |  | 0.91   |
|  |  | 1.00   |
|  |  | 0.96   |
|  |  | 0.93   |
|  |  | 0.93   |
|  |  | 0.92   |
|  |  | 1.00   |
| Item         Difficulty         (in logits)         1.51         1.43         0.84         1.61         1.71         0.70         0.06         2.03         0.58         1.70         1.98         2.29         3.31         3.55         2.48         2.74         3.37         2.51         2.02         2.03         2.51         2.15         2.02         3.37         2.51         2.15         2.02         2.03         3.37         2.51         2.02         2.03         3.37         2.15         2.02         2.03         3.07         1.36         3.07         1.72         2.78         2.13         2.97 |  |        |

#### 2.1.1.5 Grades 9–12

Complete Item Analysis and Summary: List 9-12 S403 Online

|  | Average |  | Average | Average |
|--|---------|--|---------|---------|
|  |         |  |         | Outfit  |
|  |         |  |         | Mean    |
| Item Type  |         |  |         | Square  |
| Selected Response  |         |  |         | 0.97    |
| Item Type<br>Selected Response   |         |  |         |         |
|  |         |  |         | tics    |
|  |         |  |         | Outfit  |
| Name   |         |  |         | Mnsq    |
| 1.L91A_S1_ArtCountes_t_P_100_S_creen_2_12360   |         |  |         | 1.15    |
| 21.91A, S.I., ArtConnex () 100, Screen, 3, 12361   |         |  |         | 1.26    |
| 31.91A_ST_ArtContest_P100_Serien_4_12441   |         |  |         | 1.33    |
| 4.1.91B SI Renewable Energy P 100 S creen 2 12442  |         |  |         |         |
| 5.L91B_SI_Renewable Energy_P_100_S creen_3_12443   |         |  |         | 1.53    |
| 6.L918   |         |  |         | 1.01    |
| 7.L91B [LA] Free Vers e [P 100] Stereen [2] 12887  |         |  |         | 0.79    |
| 8.1.9118 _LA_Free Vers e_P 100_S creen _1_12889  |         |  |         | 0.89    |
| 0.L01B_LA_Free Vers e_P_100_S creen_4_12890  |         |  |         | 0.94    |
| 10.1.918 _MA_WaterSale_P 100_S creen_2_12714   |         |  |         | 0.96    |
| 11.L91B_MA_WaterSale_P-100_S-creen_3_12715   |         |  |         | 0.98    |
| 12.1.918 _MA_WaterSale_P 100_S creen_4_12716   |         |  |         | 0.99    |
| 13.L91B _SS_Glo balCarP to ductio n_P 100_S creen_2_12869  |         |  |         | 0.91    |
| 14.L91B_SS_GlobalCarP to duction_P 100_S creen_3_12870   |         |  |         | 0.94    |
| 15.L91B_SS_GlobalCarP to duction_P 100_S creen_4_12871   |         |  |         | 1.04    |
| 16.1.91A_S.C_Des.ertP.lants_P.100_S.creen_2.11034  |         |  |         | 0.91    |
| 17 L91A_S C_DesertPlants_P 100_S creen_3_11035   |         |  |         | 0.91    |
| 18.L91A_S C_Des enP lints _P 100_S creen_4_11036   |         |  |         | 0.95    |
| 19.L91C _LA_So nia AtWork_402_Screen_2_14885   |         |  |         | 0.99    |
| 20 L91C LA_Somia AtWork 402 Screen 3 14886   |         |  |         | 0.87    |
| 21 L91C LA_Sonia AtWork 402 Screen 4 14888   |         |  |         | 0.99    |
| 22 [1918] MA, Schon (Market, 402, Scieen, 2, 15649   |         |  |         | 0.90    |
|  |         |  |         | 0.92    |
| 23 I.911) . MA., Scho o. [Market, 402] Screen, 3, 15650<br>24 I.911) . MA., Scho o. [Market, 402] Screen, 4, 15651 |         |  |         | 1.04    |
| 25.1.91B - SS_Cosete Rice-402_Screen_2_14954   |         |  |         | 0.86    |

|  |  |  | t              |
|--|--|--|----------------|
|  |  |  | stics          |
|  |  |  | Outlit         |
| Name   |  |  | MIIISQ<br>0.02 |
| 26 [2918] SS_Cossia Rica 402_Screen 3, 14955                   |  |  | 0.93           |
| 27 [2]18 S. Co eta Rica 402 Screen 4, 14956                    |  |  | 0.95           |
| 28.L91B_SC_Grass ho pperLife Cycle_P 100_S creen_2_11198       |  |  | 1.06           |
| 29.L91B_SC_Gravs ho prerLife Cycle_P100_S creen_3_11199        |  |  | 0.78           |
| 30.1.91B_SC_Grass ho pperLife Cycle_P100_S creen_4_11215       |  |  | 0.94           |
| 31 L91B LA. Co. mmunityGarden_403_Screen_2_16586               |  |  | 0.89           |
| 32.1.91B_LA_Co_mmunityGarden_403_Screen_3_16587                |  |  | 0.93           |
| 33.1.91B_LA_Co_mmunityGarden_403_Screen_4_16588                |  |  | 0.91           |
| 34.1.91B MA Bas ketballMath 403 Screen 2, 16656                |  |  | 0.94           |
| 35.1.91B_MA_Bas ketballMath_403_Screen_3_16657                 |  |  | 0.94           |
| 36.L91B_MA_Bas ketballMath_403_Screen_4_16658                  |  |  | 0.94           |
| 37.L91C_LA_P.o.etry_P.100_S.creen_2_12893                      |  |  | 0.98           |
| 38.L91C _LA_P o etry_P 100_S creen_3_12894                     |  |  | 0.94           |
| 39.1.91C _LA_P or env_P 100_S creen_4_12895                    |  |  | 1.09           |
| 401.91C_MA_WaterSale_P_100_S creen_2_12720                     |  |  | 0.88           |
| 41.L91C_MA_WaterSale_P-100_S-creen_3_12903                     |  |  | 0.80           |
| 32.1.91C MA_WaterSale_P_100_S creen_4_12907                    |  |  | 0.88           |
| 43.1.91C_SS_Glo balCo ffee P to ductio n_P 100_S ereen_2_13036 |  |  | 0.86           |
| 14.1.91C_SS_GlobalConfee Production_P100_Stereen_3_13037       |  |  | 0.93           |
| 45.L91C_SS_GlobalConfee Phoduction_P100_Stereen_4_13038        |  |  | 1.02           |
| 46.L918_SC_P lantLife Cycle_P 100_S creen_2_11245              |  |  | 0.85           |
| 47.L918_SC_P-lantLife Cycle_P-100_S-creen_3_11343              |  |  | 0.88           |
| 48.L918 SC_P lantLife Cycle_P 100_S creen_4_11344              |  |  | 0.98           |
| 39 L91C _ LA_LibraryVis_1L303_Screen_2_16590                   |  |  | 0.90           |
| 50 L91C _LA_LibraryVis_it_403_Surven_3_16591                   |  |  | 0.86           |
| 51 L91C LA Library Vis. it. 403_Screen_4_16592                 |  |  | 0.99           |
| 521.91C_MA.angles_jo.go_P100_A202_Support 2_13865              |  |  | 0.97           |
| 531.91C_MA.angles_jo.go_P100_A202_Storen_3_13866               |  |  | 0.96           |
| SEP91C: MIX angles (juge 1210) A202 Station 4 15867            |  |  | 0.94           |

# 2.1.2 Reading

2.1.2.1 Grade 1

#### Table 2.1.2.1

#### Complete Item Analysis and Summary: Read 1 S403 Online

| Complete them Anarysis and Summary. Read 1 5405 Omme  |  | Average | Average |
|---|--|---------|---------|
|   |  |         | Outfit  |
|   |  |         | Mean    |
| Item Type   |  |         | Square  |
| Selected Response   |  |         | 0.98    |
| Item Type<br>Selected Response  |  |         | t       |
| Name<br>R 01A S 1 GottingReady P 100 A201 S creen 2: 13193  |  |         | tics    |
|   |  |         | Outfit  |
| Name  |  |         | Mnsq    |
| .R.01A_S1_GettingReady_P_100_A203_S creen_2_13193   |  |         | 0.84    |
| 2.R.01A_S1_GettingReady_P_100_A203_S creen_3_13194  |  |         | 0.90    |
| <ul> <li>R.01A, S.I. GettingReady, P.100, A203, S. Creen, A. 13194</li> <li>R.01A, S.I. GettingReady, P.100, A203, S. Creen, 4, 13195</li> </ul>  |  |         | 1.20    |
| 3.R.01B _SI_Mo mingMes s age_P 100_A203_S creen_2_13196   |  |         | 1.18    |
| 5.R.01B _S1_Mo mingMes s age_P 100_A203_S creen_3_13197   |  |         | 1.11    |
| 5.R.01B _S1_Mo mingMes s age_P 100_A203_S creen_4_13198   |  |         | 1.49    |
| 2.R.01A_LA_C a (Adventure_203_P 100_A301_S creen_2_13211  |  |         | 0.99    |
| 3.R.01A_LA_C a (Adventure 203.P.100_A301_S creen 3_13212  |  |         | 0.97    |
| 9.R.01A_LA_C a (Adventure 203_P 100_A301_S creen 4_13213  |  |         | 1.00    |
| <ul> <li>R.01A, J.A., CartAdventure, 205, P.100, A201, S. ereen, J., 13098</li> <li>R.01A, J.A., CartAdventure, 205, P.100, A301, S. ereen, J., 13213</li> <li>R.01A, J.A., CartAdventure, 205, P.100, A301, S. ereen, J., 13213</li> <li>R.01A, J.A., CartAdventure, 205, P.100, A301, S. ereen, J., 13213</li> <li>R.01A, M.A., CoruntBallo on s., 301, P.100, A301F, T. Sersen, Z., 13274</li> </ul> |  |         | 1.08    |
| 11 R 01A M A CountBalloops 301 P 100 A301ET Screen 3 13275  |  |         | 0.98    |
| 22R 01A_M A_CountBallo.o.us_301_P 100_A301F T_Serven_4_13276  |  |         | 0.93    |
| 3-R-01C _SS_P e (Store_P-100_A202_S-creen_2_13313   |  |         | 0.98    |
| (4.R.01C_SS_P.e.(Store_P.100_A202_Streen_3_13314  |  |         | 0.96    |
| 5 R 01C _SS_P e (Store_P-100_A202_S creen_4_13315   |  |         | 0.97    |
| .6.R.01B_SC_Mo on Characteris (ic.s., 402_V1_S creen_2_15680  |  |         | 0.95    |
| 7.R 01B_SC_Mo o nCharacteris tic s_402_V1_S creen_3_15681   |  |         | 0.97    |
| 8.R.01B_SC_Mo on Characteris (ic.s., 402_V1_S creen_4_15682   |  |         | 0.95    |
| 29.R 01A_LA_AVis iffo The P o nd P 100_A203_S creen 2_13199   |  |         | 0.95    |
| 20.R 01A_LA_AVis itTo The P o nd P 100_A203_S creen 3_13200   |  |         | 0.90    |
| 21.R 01A. LA_AVIs itTo The P o nd P 100_A203_S creen 4, 13201   |  |         | 0.90    |
| 22.R 01A, M.A. FamilyGatheringatBeach Jc. P 100, A203, 8 creen, 2, 13202  |  |         | 0.90    |
| 23 R 01A: MFA: FamilyGatheningetBrach (c. P.100) A208, Screen, 3 (3208  |  |         | 1.02    |
| 24 R 01A, MFA, FamilyGatheringatBrach, jc. P 100, A203, S crean, 4, 13204   |  |         | 0.97    |
| 25 R 01B - EA ThunkYo u-402 - VE S creen 2-16039  |  |         | 0.93    |

|  |  | F | it |
|--|--|---|----|
|  |  |   |    |
|  |  |   |    |
| Name   |  |   |    |
| 26 R 01B _LA_ThankYo u_402_V1_8 creen_3_16040                                |  |   |    |
| 27.R.01B_LA_ThankYo.u.402_V1_Screen_4_16041                                  |  |   |    |
| 28.R.01B _MA_Es (initing Money, ShLo GiP e. P.100_A203, Screen 2, 13220      |  |   |    |
| 29.8.01B MACEs filmathgMoney_ShLo GIP e. P.100_A203_S creen_3_13221          |  |   |    |
| 30 R 01B _MA_Es finatingMoney_ShLo GiP e_P 100_A203_S creen_4_13222          |  |   |    |
| 31. R 01 A _S S_Vis itMyTo vn. 402_V2_Screen_2_16035                         |  |   |    |
| 32.R.01A_S.S. Vis itMyTo.vn.402_V2_Screen_3_16036                            |  |   |    |
| 33 R 01 A_S S_Vis (tMyTo wn .402_V2_Screen_4_16037                           |  |   |    |
| 34 R 01B _SC_AnnualCo vernes_do de P 100_A301_S creen_2_13238                |  |   |    |
| 35 R 01B _SC_AnimalCo verings _do de [P 100_A301_S creen_3_13239             |  |   |    |
| 36 R 01B _SC_AnimalCo verings _do de_P 100_A301_S creen_4_13240              |  |   |    |
| 37 R 01B [LA Lunchtime P 100 A202 Screen 2] 13283                            |  |   |    |
| 38.R.01B_LA_Lunchtime_P_100_A202_8_creen_3_13284                             |  |   |    |
| 39.R.01B _LA_Lunchtime_P_100_A202_S creen_4_13285                            |  |   |    |
| 30 R 01C _MA_Ice Cream A(The Plack, Am E(PlacAg_P 100, A203, Screen_2, 13244 |  |   |    |
| 11 R OLC _MA_lee Cream Afflie Park. Am EfP a Ag_P 100_A203_S creen_3_13245   |  |   |    |
| A2.R.01C_MA_Ice Cream AtThe Plack, Am EPla Ag_P.100, A203, Screen_4, 13246   |  |   |    |
| 13.R.01B _SS_Where TheyLive_403_Screen_2_17033                               |  |   |    |
| ALR DIB _SS_Where TheyLive 403_Screen 3_17034                                |  |   |    |
| 35.R.01B _SS_Where TheyLive_403_Screen_4_17035                               |  |   |    |
| 36.R.011B_SC_Gecko.s_303_Screen_2_17135                                      |  |   |    |
| 37.R.011B_SC_Gecko.s_303_Screen_3_17138                                      |  |   |    |
| 48.R-011B_SC_Geckors_403_Screen_4_17139                                      |  |   |    |
| 39 R 01B _LA_Zo o Trip_203_F 100_A301_S creen_2_13217                        |  |   |    |
| 50.R 01B _LA_Zo o Trip_203_P 100_A301_S creen_3_13218                        |  |   |    |
| 51.R 01B_LA_Zo o Trip_203_P 100_A301_S creen_4_13219                         |  |   |    |
| 52.R 01C _MA_Balance Scale_401_V2_Screen_2_14619                             |  |   |    |
| STRONC MATERIANS SUBJECT VESSION STREETS (4620                               |  |   |    |
| SERVIC MATERIAnce Scale 401, V2, Screen 4, 14621                             |  |   |    |
| 55.R 01B _SS_Farmers Market_401_V2_S creen_2_14721                           |  |   |    |
| Solik (111) - NS, Tommer, Market (401) - V2, Storeen, 3, 14722               |  |   |    |
| 57 R 01B _SS_Farmers Market_401_V2_S creen_4_14725                           |  |   |    |
| SSR 01C _ 8C Recycling _402, V2, Screen 2_16053                              |  |   |    |
| 59.R. 01C., SC. Recycling, 402, V2, Screen, 3, 16054                         |  |   |    |
| ROROUIC SC Recoline 402 V2 Screen 4 16055                                    |  |   |    |

|  | Item |  |  |  |        |  |
|--|------|--|--|--|--------|--|
|  |      |  |  |  |        |  |
|  |      |  |  |  | Outfit |  |
| Name   |      |  |  |  |        |  |
| 51 R 01C _LA_GrowingTaller_203_P 100_A301_S creen_2_13241  |      |  |  |  | 0.79   |  |
| 52.R.01C_LA_Gro.wingTaller_203_P-100_A301_8-creen_3_13242  |      |  |  |  | 0.79   |  |
| 53.R 01C_LA_GrowingTaller_203_P-100_A301_S-creen_4_13243   |      |  |  |  | 1.06   |  |
| 54.R.01C_MA_P-uppetSho.w_do.de_P-100_A203_S-creen_2_13256  |      |  |  |  | 1.04   |  |
| 55.R.01C_MA_P-uppetSho.w_do.de_P-100_A203_S-creen_3_13257  |      |  |  |  | 0.96   |  |
| 56 R OLC _MA_P uppetSho w_do de_P 100_A203_S creen_4_13258 |      |  |  |  | 0.93   |  |
| 57.R 01B _ SS_Two Schoo B _303_Screen_2_17029              |      |  |  |  | 1.08   |  |
| 58.R 01B _SS_Two Schoo Is _403_Screen _3_17030             |      |  |  |  | 0.94   |  |
| 59.R 01B _SS_Two Schoo Is _403_Screen _4_17031             |      |  |  |  | 1.00   |  |
| 20 R 01B _SC_Fix10_403_Screen_2_17131                      |      |  |  |  | 0.92   |  |
| 21 R 01B _ SC 19x1r 403 (Serieu - 3-1213)                  |      |  |  |  | 0.88   |  |
| 72 R 010 _SC [531: 405: Screen 4, 17135                    |      |  |  |  | 1.03   |  |

#### 2.1.2.2 Grades 2–3

Complete Item Analysis and Summary: Read 2-3 S403 Online

|  | Average |  | Average | Average |
|--|---------|--|---------|---------|
|  |         |  |         |         |
|  |         |  |         |         |
| Item Type  |         |  |         |         |
| tem Type<br>Selected Response                                  |         |  |         |         |
|  |         |  |         |         |
|  |         |  |         |         |
|  |         |  |         |         |
| Name   |         |  |         |         |
| R 23A_SL Getting_Ready_P 100_A203_S creen_2_13325              |         |  |         |         |
| 2.R.23A_SL_Getting_Ready_P-100_A203_S-creen_3_13326            |         |  |         |         |
| 3.R.23A_SL_Getting_Ready_P-100_A203_S-creen_4_13327            |         |  |         |         |
| I.R. 23B_SL RunningClub_401_V2_S creen_2_14589                 |         |  |         |         |
| 5.R. 23B_SL_RunningClub_401_V2_S creen_3_14590                 |         |  |         |         |
| 5.R. 23B_SL_RunningClub_401_V2_S creen_4_14591                 |         |  |         |         |
| 7.R.23A_LA_BenFranklin_203_P-100_A301_S-creen_2_13331          |         |  |         |         |
| 3 R 23A_EA_BenFranklin_203_P 100_A301_S creen_3_13332          |         |  |         |         |
| 2 R 23A LA Benfranklin 203 P 100 A301 S creen 4 13333          |         |  |         |         |
| 0.R 23A_MA_BuyingScholo ISupplies_P 100_A201_S creen_2_13392   |         |  |         |         |
| 11R 23A, MA_BuyingSchoolSupplies_P.100_A201_Screen_3_13393     |         |  |         |         |
| 2.R.25A_MA_BuyingScholo (Supplies_P-100_A201_Sicreen_4_13394)  |         |  |         |         |
| [3]R 23A_SS_Holmes of the Plast_203_P 100_A301_S creen_2_13277 |         |  |         |         |
| 14.R.23A_SS_Holmes on the Plast_203_P-100_A301_S-creen_3_13278 |         |  |         |         |
| 15.R.23A_SS_Holmes of the Plast_203_P-100_A301_S-creen_4_13279 |         |  |         |         |
| [6.R.23B_SC_AnimalMovement_dode_P-100_A301_S-creent_2_13292    |         |  |         |         |
| 17.R.23B_SC_AnimalMo.vement_do.de_P-100_A301_S-creen_3_13293   |         |  |         |         |
| 8.R.23B_SC_AnimalMovement_dode_P100_A301_Screen_4_13294        |         |  |         |         |
| 19 R 23B L A. IvanAfflie Market (P100_A202; Screen:2, 13353    |         |  |         |         |
| 20.R 23B_LA_IvanA(The Market_P-100_A202_S creen_3_13354        |         |  |         |         |
| 21.R.23B_LA_IvanA(The Market_P.100_A202_S creen_4_13355        |         |  |         |         |
| 22.R 23B, MA, Cupcakes, P.100, A201, S. creen, 2, 13401        |         |  |         |         |
| SER 28B: MACOupsides: P100: A2015 Server 5: 15902              |         |  |         |         |
| 24.R.23B. MA_Cuperkes_P-100_A201_S-creen_4_13403               |         |  |         |         |
| 25.R.25B+EA Treasure Hunt-402 v E Screen (2, 15700             |         |  |         |         |

|   | Ttom |  | F<br>Statis | it |
|---|------|--|-------------|----|
|   |      |  |             |    |
|   |      |  |             |    |
| 26.R 23B_LA_Treas are Hint_402_v1_S creen_3_15715   |      |  |             |    |
| 27.R 23B_LA_Treasure Hunt_402_v1_S creen_4_15716  |      |  |             |    |
|   |      |  |             |    |
| 28.R.23B_MA_RecyclingP ro ject_402_v1_S creen_2_15626   |      |  |             |    |
| 23 R 23 B JUNE (Contraction of the state of |      |  |             |    |
| AUR 23 BUILD ARCHING FOR A CONTRACT AND A CONTRACT |      |  |             |    |
| <ul> <li>[1] R. 23C., SS., Urban Neighbo rho o. d., P.100, A301, S. creen., 2, 13371</li> <li>[2] R. 23C., SS., Urban Neighbo rho o. d., P.100, A301, S. creen., 3, 13372</li> </ul>  |      |  |             |    |
|   |      |  |             |    |
| 33.R 23C, SS, UrbanNeighbo rho o d. P 100, A301, S creen, 4, 13373  |      |  |             |    |
| 4.4. 23B, SC, TempClimate, 401, VI, S creen, 2, 13932   |      |  |             |    |
| astic 23B SC_FempClimate 301_VLS creen_3_13936  |      |  |             |    |
| 16.R. 23B, SC, TempClinate, 401, VI, Screen, 4, 13937   |      |  |             |    |
| 27.R.23B_LA_Zebra Stripes_203_P.100_A301_a.ltf_8.creen_2_13410  |      |  |             |    |
| 38 R 23B, LA, Zebra Stripes (203) P 100, A301 a 10 [S creen [3] 13411   |      |  |             |    |
| 29.R.23B_LA_Zebra Stripes_203_P-100_A301_a It1_S creen_4_13412  |      |  |             |    |
| 10.R.23B_MA_Library_P.100_A201_a111_S_creen_2_13413   |      |  |             |    |
| 11.R. 23B. MA, Library P. 100, A201, a 111, S. creen, 3, 13414  |      |  |             |    |
| 42.R.23B_MA_Library_P_100_A201_at1(1_S_creen_4_13415  |      |  |             |    |
| 33.R.23B_SS_ArtP roducts_403_Screen_2_17041   |      |  |             |    |
| 54.R. 23B_SS_ArrP roducts_303_Screen_3_17042  |      |  |             |    |
| 55.R. 23B_SS_ArtP to ducts_403_Screen_4_17043   |      |  |             |    |
| 06.R. 23C_SC_P o.ml_403_Screen_2_17153  |      |  |             |    |
| 17.R.23C_SC_P.o.ml_403_Screen_3_17154   |      |  |             |    |
| 38.R 23C_SC_P o.nd_403_Screen_4_17155   |      |  |             |    |
| 9.R 23A_LA_KittenFable_203_P = 100_A203FT_Screen_2_13338  |      |  |             |    |
| 0.R 23A_LA_KittenFable_203_P_100_A203FT_Screen_3_13339  |      |  |             |    |
| 51.R 23A_LA_KittenFable_203_P 100_A203F T_Sereen_4_13340  |      |  |             |    |
| 52.R 23C_MA_ReadingP ro ject_402_v2_Screen_2_16092  |      |  |             |    |
| 53.R 23C_MA_ReadingP ro ject_402_v2_Screen_3_16094  |      |  |             |    |
| 54.R. 23C: MA: ReadingProject, 402, v2: Screen, 4, 16005  |      |  |             |    |
| (5/R-23B_SS_Bo a ts Lo ngAgo _401_V2_S creen_2_14583  |      |  |             |    |
| 16 R 23B SS. Bo a ts Lo ngAgo _401_V2_S creen_3_14584   |      |  |             |    |
| 57.R. 23B. SS. Boarts LongAgo401. V2_S crean414585  |      |  |             |    |
| 38.R.23B_SC_AnimalMovement_doile_P100_A301_a1(1_Screen_2_13419  |      |  |             |    |
| 99.R 23B_SC_AnimalMovement_doile_P100_A30E_a1tE_S creat_3_13420   |      |  |             |    |
| 0.R.25B_SC: AnimalMovement dode (P.100, A30), with Screen 4, 13421  |      |  |             |    |

|   |  |  |  | Fit |        |  |
|---|--|--|--|-----|--------|--|
|   |  |  |  |     | Outfit |  |
| Name  |  |  |  |     | Mnsq   |  |
| 51.R.23B.L.A.,Zehni Smipes203P.100A301S.creen213344       |  |  |  |     | 0.90   |  |
| 52.R.23B_LA_Zebra Stripes _203_P.100_A301_S creen_3_13345 |  |  |  |     | 0.89   |  |
| 53.R 23B_LA_Zehni Siripes [203_P-100_A301_S-creen_4_13346 |  |  |  |     | 0.84   |  |
| 54.R 23B, MA, Edbrary, P.100, A201, S creen, 2, 13356     |  |  |  |     | 0.84   |  |
| 55.R.23B_MA_Library_P-100_A201_S creen_3_13357            |  |  |  |     | 0.82   |  |
| 56 R 23B MA Library P 100 A201 S creen_4_13358            |  |  |  |     | 0.94   |  |
| 57.R 23CLSS_Sho ps InTo vn_403_Screen_2_17049             |  |  |  |     | 1.05   |  |
| 58.R.23C_SS_Sho.ps_InTo_wn_403_Screen_3_17050             |  |  |  |     | 1.03   |  |
| 59 R 23C SS Sho ps InTo vn.403 Screen 4, 17051            |  |  |  |     | 0.88   |  |
| 70.R.23C_SC_Ins.ects_do.de_P.100_A301_S.creen_2_13374     |  |  |  |     | 0.87   |  |
| 71.R.23C_SC_Ins.ects_dn.de_P.100_A301_S.creen_3_13375     |  |  |  |     | 0.94   |  |
| 23R-24C-8C-Inserts_doub_P100_A301_Screen_4_13376          |  |  |  |     | 1.04   |  |

# 2.1.2.3 Grades 4–5

### Table 2.1.2.3

Complete Item Analysis and Summary: Read 4-5 S403 Online

|  | Average |  | Average | Average |
|--|---------|--|---------|---------|
|  |         |  |         | Outfit  |
|  |         |  |         | Mean    |
| Item Type  |         |  |         | Square  |
| Item Type<br>Selected Response   |         |  |         | 0.99    |
|  |         |  |         |         |
|  |         |  |         | tics    |
|  |         |  |         | Outfit  |
| Name   |         |  |         | Mnsq    |
| I.R. 45A_SL_WatchingTV_P_100_A301F_T_Screen_2_13509  |         |  |         | 0.50    |
| 2.R-45A_SI_WatchingTV_P_100_A301FT_Screen_3_13510  |         |  |         | 0.99    |
| 3.R.45A_SL_WatchingTV_P_100_A301FT_Screen_4_13511  |         |  |         | 1.11    |
| 4.R-45B_SL P too to Cointes (_P 100_A301F T_Science_2_13449  |         |  |         | 0.98    |
| 5.R 45B_SI_P to to Contest P 100_A301FT_Screen_3_13450   |         |  |         | 1.51    |
| 6.R.45B-SI-P.ho.to.Co.nes.t.P.100-A301FT-Screen 4, 13451   |         |  |         | 1.31    |
| 7 R-45 A. L.A., Recycle OrCompost, 4(2), V2, Screen, 2, 15991  |         |  |         | 0.86    |
| S.R.45A_LA_Recycle OrCompost_402_V2_Screen_3_15992   |         |  |         | 1.10    |
| 9.R-45A_LA_Recycle OrCompost 402_V2_Screen_4_15993   |         |  |         | 0.92    |
| 10.R.45A MA Supermuter may P. 100, 4203 Super 2, 13464   |         |  |         | 0.91    |
| 11.R. 45A, MA, Supermurket, part J. P. 100, A203, Syrson 3, 13465  |         |  |         | 0.93    |
| 12:R 45A, MA, Supermuter, par z P 100, A205, S creen, 4: 13466   |         |  |         | 0.96    |
| 13.R. 45A, SS Sho, pringCart 401, V2, Screen 2, 14714  |         |  |         | 0.87    |
|  |         |  |         | 1.06    |
| 14. K. 49. K. Sha mineford, 101, 102, Survey 6, 10214  |         |  |         | 0.07    |
| 15.R. 45A, S.S. Sho, ppingCart, 401, V2, Sarren, 4, 14716  |         |  |         | 0.97    |
| 16 R 45B_SC_Geysters_P 100_A301_45_Storeen_2_13407<br>17 R 45B_SC_Geysters_P 100_A301_45_Storeen_3_13408 |         |  |         | 1.12    |
| 17. R. 4510, S.C., Geyslers, P. 100, A310, 45, S. ereen, 3, 13403  |         |  |         | 0.07    |
| 18 Rasil SC, Geysers P 100, Additas S creenta 13009  |         |  |         | 1.1.4   |
| 19.R.45B. LA_Onthe Tmin_P.100_A202_S creen_2_13467   |         |  |         | 1.14    |
| 20 R 45B LA_Onthe Train_P 100_A202_S creen_3_43468   |         |  |         | 1.04    |
| 21.R.45B_LA_Onthe_Train_P-100_A202_S_creen_4_13469   |         |  |         | 0.22    |
|  |         |  |         |         |
| 23.R.45A_MA_BuyingScholo ISopplies_P.100_A201_8 creen_3_13519  |         |  |         |         |
| 24.R.45A_MA_BuyingScholo ISupplies_P-100_A201_S creen_4_13520  |         |  |         | 0.92    |
| 25 R 45C LA Co. o kingWithGrandpa 402 VI Screen 2 16009  |         |  |         | 0.81    |

|   |  | F | it     |
|---|--|---|--------|
|   |  |   | stics  |
|   |  |   | Outfit |
| Name  |  |   | Mnsq   |
| 26.R.45C.1.ACo.o. kingWithGrandpa_402_V1_S-creen_3_16010            |  |   | 1.06   |
| 27.R-45C_UA_Co.o. kingWilliGhandpa_402_V1_S-creen_4_16011           |  |   | 0.86   |
| 28.R.45A_MA_Class to o in Cleanup_401_V2_S creen_2_14625            |  |   | 1.04   |
| 29.R 45A_MA_Class to o m Cleanup_401_V2_S creen_3_14626             |  |   | 0.94   |
| 30 R 45A_MA_Class to o m Cleanup_401_V2_S creen_4_14627             |  |   | 1.02   |
| 3LR_45B_SS_Lewis_AndClark_402_V1_S cresn_2_16017                    |  |   | 0.94   |
| 32.R 45B_SS_Lewis_AndClark_402_V1_S creen_3_16018                   |  |   | 1.01   |
| 33.R 45B_SS_Lewis_AndClark_402_V1_S creen_4_16019                   |  |   | 1.04   |
| 34.R-45B_SC_KelpFores ts _402_V1_S creen 2_15706                    |  |   | 0.85   |
| 55.R. 45B_SC_KelpFo.res.ts_402_V1_S.creen_3_15707                   |  |   | 0.87   |
| 36.R.45B_SC_KelpForres ts : 402_V1_S creen: 4_15708                 |  |   | 1.04   |
| 57.R 45B_MA_Class Schedule_jc_P 100_A201_S creen_2_13479            |  |   | 0.87   |
| 58.R 45B MA, Class Schedule, jc.,P 100, A201, S creen, 3, 13480     |  |   | 0.92   |
| 39 R 45B MA_Class Schedule_jc_P 100_A201_S creen_4_13481            |  |   | 1.00   |
| 10.R 45B SS_Declaration_P_100_A203FT_Screen_2_13527                 |  |   | 0.99   |
| 41.R.45B_SS_Declaration_P_100_A203FT_Screen_3_13528                 |  |   | 1.02   |
| 2.R.45B_SS_Declaration_P_100_A203FT_Screen_4_13529                  |  |   | 1.00   |
| 3 R 45B SC Animals InEcosystems _403 Screen_2_17109                 |  |   | 0.97   |
| 4.R.45B_SC_Animals InEcosystems_403_Screen_3_17110                  |  |   | 0.97   |
| 15 R 45B SC Animals InEcosystems _403 Screen_4_17111                |  |   | 1.02   |
| 16.R.45C_LA_BrunelDavinci, 203_P, 100_A301_S creen_2_13488          |  |   | 1.02   |
| 7.R-45C_LA_BrunetDavinst_203_P_100_A301_S creen_3_13489             |  |   | 0.94   |
| 8.R.45C_LA_BrunefDavinci_203_P=100_A301_8_creen_4_13490             |  |   | 1.06   |
| 9.R.45C_MA_So ccerlaThe Park_401_V1_S creen_2_13926                 |  |   | 1.01   |
| 0.R 4SC_MA_So ccertaThe Park_401_V1_S creen_3_13927                 |  |   | 1.42   |
| 51 R 45C MA. So ceerInThe Park 401 VI. S creen 4, 13928             |  |   | 1.37   |
| 52.R.45B_SS_Native_AmericanShelters_namo_P_100_A202_S_creen_2_13482 |  |   | 0.93   |
| 53 R 45B SS Native AmericanShelters name P 100 A202 Screen 3 13483  |  |   | 0.93   |
| 34.R.45B_SS_Native AmericanShehers_name_P-100_A202_S creen_4_13484  |  |   | 1.01   |
| 5.R.45B_SC_Geyvers_P.100_A301_A1(1_Screen_2_13539                   |  |   | 0.61   |
| MER 30 SC GeV (K. P.10) A301 A11 Science COM                        |  |   | 0.91   |
| 77.R.45B.SC.Gevvers. P.100.A301_Alt1_Screen.4.13541                 |  |   | 0.95   |
| 58.R.45B. LA. Outlie Train. P.100. A202. Alt1. Screen. 2, 13530.    |  |   | 1.02   |
| 9/R 39R EA Onthe Train P100 A202 Are service                        |  |   | 0.90   |
| SUR SUP FA Online Train, PHOP ASID: AILES over AL 19532             |  |   | 0.89   |

|  | The second |  | Ritorit | it |
|--|------------|--|---------|----|
|  |            |  |         |    |
| Name   |            |  |         |    |
| 51 R 45B MA. Class Schedule_jc_P 100_A201_Alt1_S creen_2_13533   |            |  |         |    |
| 52.R.45B_MA_Class Schedule_jc_P.100_A201_Att1_Science_3_13534    |            |  |         |    |
| 53.R.45B_MA_Clusis Schedule_jc_P-100_A201_A101_Screen_4_13535    |            |  |         |    |
| 54.R-45C_5S_Eleano rRo o s evelt_203_P-100_A301_S creen_2_13503  |            |  |         |    |
| 55.R-45C_SS_Eleano rRo o s evelt_203_P-100_A301_S creen_3_13504  |            |  |         |    |
| 56.R-45C_SS_Eleano (Rolo s evel) 203_P 100_A301_S creen _4_13505 |            |  |         |    |
| 57.R-45C_SC_QuishingAs pen_403_Screen_2_17107                    |            |  |         |    |
| SS.R.45C_SC_QuakingAs pen_403_Screen_3_17112                     |            |  |         |    |
| SMR (SC SC Quaking Assport (DS Stream 1, 1711)                   |            |  |         |    |

# 2.1.2.4 Grades 6–8

### Table 2.1.2.4

Complete Item Analysis and Summary: Read 6-8 S403 Online

|  | Average |  | Average | Average |
|--|---------|--|---------|---------|
|  |         |  |         | Outfit  |
|  |         |  |         |         |
| Item Type  |         |  |         |         |
| Item Type<br>Selected Response   |         |  |         |         |
|  |         |  |         |         |
|  |         |  |         |         |
|  |         |  |         |         |
| Name   |         |  |         |         |
| 1.R-68A_S1_P to perCo-nduct_P-100_A203_S creen_2_13554                 |         |  |         |         |
| 2.R 68A_S1_P to perConduct_P 100_A203_S creen_3_13555                  |         |  |         |         |
| 3.R. 68A_S1_P to perCo induct_P 100_A203_S creen_4_13556               |         |  |         |         |
| 3 R 68B_SL Sports Equipment_301_P 100_A 301F T_Screen_2_13629          |         |  |         |         |
| S.R. 688_SL Sports Equipment_301_P-100_A301F T_Screen_3_13630          |         |  |         |         |
| 5.R 681. SL Sports Equipment 301_P 100_A301F T_Screen_4_13631          |         |  |         |         |
| 7.R. 68A_LA_ScavengerHunt_401_V2_S_creen_2_14640                       |         |  |         |         |
| 3.R. 68A_LA_ScavengerHunt_401_V2_S_creen_3_14641                       |         |  |         |         |
| P.R. 68A_LA_ScavengerHunt_401_V2_S_creen_4_14642                       |         |  |         |         |
| 10.R 68A_MA_Closset_rize_P 100_A203_S creen_2_13563                    |         |  |         |         |
| 11.R.68A_MA_Close_t_rize_P-100_A203_Screen_3_13564                     |         |  |         |         |
| 12.R 68A MA Close t_rize_P 100_A203_S creen_4_13565                    |         |  |         |         |
| 13.R-68A_SS_Uniguny_203_P-100_A301_S-creen_2_13566                     |         |  |         |         |
| 14.R-68A_SS_Uniguny_203_P-100_A301_S-creen_3_13567                     |         |  |         |         |
| 15.R. (8A. SS. Uruguny, 203, P.100, A301, S. creen, 4, 13568           |         |  |         |         |
| 16.R.68A_SC_Leaffus.ects_402_V1_S creen_2_15712                        |         |  |         |         |
| 17.R.68A_SC_Leaffus.ects_402_V1_S creen_3_15713                        |         |  |         |         |
| ISR 68A_SC_Leafins ects_402_V1_S creen_4_15714                         |         |  |         |         |
| 19.R 68A, LA_Collinge, 203, P.100_A301_S creen, 2, 13572               |         |  |         |         |
| 20.R.68A_LA_Co.lls.ge.203_P.100_A301_S.creen_3_13573                   |         |  |         |         |
| 21.R.68A_LA_Co.lls.ge.203_P-100_A301_S-creen_4_13574                   |         |  |         |         |
| 22R OSA, MANS or overfield, DC ROSicha, PHDE A203, Storen 2, 13575     |         |  |         |         |
| 23 R 68A, MA_s o certifili. De Ro Sa Fa, P 100, A203, S eteen 3, 13576 |         |  |         |         |
| 24.R. 68A_MA_s o ceeffield. De Ro Sa J.a. P.100_A203_S creen_4_13577   |         |  |         |         |
| 25 R 68C L A Team Leader 402, V2 Screen 2, 16022                       |         |  |         |         |

|   |  |  | 1      |
|---|--|--|--------|
|   |  |  | tics   |
|   |  |  | Outfit |
| Name  |  |  | Mnsq   |
| 26.R 68C_LA_Team_Leader_402_V2_Screen_3_16023                         |  |  | 0.95   |
| 27.R 68C_LA_Team_Leader_402_V2_Screen_4_16024                         |  |  | 0.84   |
| 28.R 68C_MA_Ratio s _401_V1_S creen_2_13962                           |  |  | 0.96   |
| 29.R 68C_MA_Ratio s _401_V1_S creen_3_13963                           |  |  | 1.01   |
| 30.R 68C_MA_Ratio s _401_V1_S creen_4_13964                           |  |  | 1.06   |
| 31 R 68B_SS_Ro.ckAndRo.11_203_P.100_A301_S creen_2_13584              |  |  | 1.01   |
| 32.R. 68B. SS. Ro.ck AndRo II. 203. P. 100. A 301. S. creen. 3. 13585 |  |  | 0.87   |
| 33 R 68B SS_RockAmiRo II_203_P 100_A301_S creen_4_13586               |  |  | 0.93   |
| 34 R 65B SC_CellDivis in n. diah. P 100_A301_S creen_2_13587          |  |  | 0.92   |
| 35 R 68B SC_CellDivis in n_diah_P 100_A301_S creen_3_13588            |  |  | 0.93   |
| 36.R. 68B SC CellDivis ion_dish_P-100_A301_S creen_4_13589            |  |  | 1.00   |
| 37.R 68C LA So larOven 203_P 100_A203_S creen 2_13602                 |  |  | 0.93   |
| 38.R-68C_LA_So-larOven_203_P-100_A203_S-creen_3_13603                 |  |  | 0.91   |
| 39.R-68C_LA_So-larOven_203_P-100_A203_S-creen_4_13604                 |  |  | 0.91   |
| 30.R 68B_MA_newro.o.m_diab_P 100_A203_a H_S creen_2_13650             |  |  | 0.94   |
| 41.R.68B_MA_newro.o.m_diab_P.100_A203_a.10_S.creen_3_13651            |  |  | 0.96   |
| 32 R 688_MA_newro.om_diab_P 100_A203_a141_S creen_4_13652             |  |  | 1.05   |
| 33.R 688_SS_Competition_403_Screen_2_17012                            |  |  | 0.97   |
| 34 R 68B_SS_Competition_405_Screen_3_17014                            |  |  | 1.01   |
| 35.R 688_SS_Competition_403_Screen_4_17015                            |  |  | 0.94   |
| 46.R 68B SC SunLayers 403 Screen 2 17127                              |  |  | 1.00   |
| 77.R 688_SC_SunLayers_403_Screen_3_17128                              |  |  | 1.04   |
| 18:R 68B_SC_SunLayers_403_Screen_4_17129                              |  |  | 1.03   |
| 39.R.68C.LA. MyPenPat.P.100.A202.S.creen 2:13659                      |  |  | 0.97   |
| 50.R 68C_LA_MyPenPa1.P 100_A202_S crean_3_13660                       |  |  | 1.00   |
| 51 R 68C LA MyPenPat P 100 A202 S creen 4 (366)                       |  |  | 1.16   |
| 52 R 68C MA Rutios 401 V2 S crean 2 14616                             |  |  | 0.91   |
| 53 R 68C MA Rutios 401 V2 Screen 3, 14617                             |  |  | 1.03   |
| ALK ONCE MAL ROUGES OF LEVELS SERVICES AND A SERVICES                 |  |  | 0.97   |
| SER ONCESS NITERING HILE VESTION                                      |  |  | 0.89   |
| NOR ONCESS NITO REVEALED VESTION                                      |  |  | 1.07   |
| 77 P. OKCESS, NILLENDER JULE VIES (1994)                              |  |  | 0.97   |
| SER ONE SC PROTOTEDE ROSCIDER   |  |  | 0.96   |
| Standard School Code Dis Ro School                                    |  |  | 1,04   |
| AND AND SE PROTOTED DE RESERVER PROTECTIONS AND A DE SUCCESS          |  |  | 1.06   |

|  |  |  |  | Fit |                |  |
|--|--|--|--|-----|----------------|--|
|  |  |  |  |     | uics<br>Outfit |  |
| Name   |  |  |  |     | Mnsq           |  |
| 51.R 68C_LA_P to digy_203_P 100_A301_S creen_2_13614                     |  |  |  |     | 0.79           |  |
| 22.R 68C_LA_P to digy_203_P 100_A301_S creen_3_13615                     |  |  |  |     | 0.83           |  |
| 53.R. 68C. L.A., P. ro digy. 203. P.100_A301_S creen. 4_13616            |  |  |  |     | 0.92           |  |
| SER 68C_MA_Fo.o.dCo.lle.etio.it_Ra.ObAin.Sc_P.100_A203_S.creen_2_13617   |  |  |  |     | 1.03           |  |
| 55.R.68C_MA_Fo.o.dCo.lle.etio.n_Ra.ObAin.Sc_P.100_A203_S.creen_3_13618   |  |  |  |     | 0.97           |  |
| 26.R. 68C_MA_Fo.o.dCo.lle.etio.it_Ra.ObAin.Sc_P.100_A203_S.creen_4_13619 |  |  |  |     | 0.98           |  |
| 77.R-68C_SS_Spo.1light_403_Screen_2_17025                                |  |  |  |     | 1.03           |  |
| 58.R-68C_SS_Spo1light_403_Screen_3_17026                                 |  |  |  |     | 0.88           |  |
| 29.R 68C_SS_Spotlight_403_Screen_4_17027                                 |  |  |  |     | 0.98           |  |
| 20.R 68C_SC_P lanetComposition_403_Screen_2_17123                        |  |  |  |     | 0.98           |  |
| TLR 68C_SC_P lanetComposition_403_Screen_3_17124                         |  |  |  |     | 0.94           |  |
| 22.R (NC, SC, PhanelComposition, 403; Screen, 4, 17125                   |  |  |  |     | 1.06           |  |

# 2.1.2.5 Grades 9–12

### Table 2.1.2.5

Complete Item Analysis and Summary: Read 9-12 S403 Online

|   | Average |  | Average | Average |
|---|---------|--|---------|---------|
|   |         |  |         |         |
|   |         |  |         |         |
| Item Type   |         |  |         |         |
| Item Type<br>Selected Response  |         |  |         |         |
|   |         |  |         |         |
|   |         |  |         |         |
|   |         |  |         |         |
| Name  |         |  |         |         |
| LR 91A_S I_J o bSearch_301_P 100_A3011'T_Serven_2_13743                 |         |  |         |         |
| 2.R 91A S L J o bSearch 301_P 100_A301F T_Screen 3_13744                |         |  |         |         |
| 3 R 91A - S I - Lo bSearch, 301 - P 100 - A3011 - T., Screent, 4, 13745 |         |  |         |         |
| 3.R.91B_SI_Cho.o.s ingCo.lle.ge_401_V1_S creen_2_13950                  |         |  |         |         |
| 5.R.91B _SI_CholosingCollege_401_V1_Screen_3_13951                      |         |  |         |         |
| 5.R.91B SI Choos singColle ge 401 VI Screen 4 13952                     |         |  |         |         |
| 7 R 91 A. L.A., C. hurles, Schulz, 203, P 100, A301, S. creen, 2, 13674 |         |  |         |         |
| S.R.91A LA, Churles Schulz 203, P 100, A301, S creen, 3, 13675          |         |  |         |         |
| 9.R.91A LA, Charles Schulz 203 P 100, A301 S creen 4, 13676             |         |  |         |         |
| 2 K SHAC LA LC HINES SCHUZ 200 P 100 A301 SACRUES 1300                  |         |  |         |         |
| 10 KOTA_M A_Drawingshapes_kije_P 100_A203_S creen 2_1507                |         |  |         |         |
| 11.R.91A_M_A_DrawingShippes_kajie_P_100_A203_S creen_3_13678            |         |  |         |         |
| 12.R.91A_M_A_DrawingShapes_kaje_P-100_A203_S-creen_4_13679              |         |  |         |         |
| 13 R 91A, S.S. Avtado allis to ty. P.100, A203, S. creen, 2, 13680      |         |  |         |         |
| 14.R 91A_S.S. Aviatio nHis to ry _P 100_A203_S creen_3_13681            |         |  |         |         |
| 15 R 91A_S S_Aviatio offlix to ry, P 100_A203_S creen_4_13682           |         |  |         |         |
| 16.R.91B_SC_Mus ic Memo ry_402_V2_Screen_2_16062                        |         |  |         |         |
| 17.R.91B_SC_Mus ic Memo ry_402_V2_Screen_3_16063                        |         |  |         |         |
| ISIR9118_SC_MiniceMemory_402_V2_Street_45_fold4                         |         |  |         |         |
| 19.R.91B _1A, Annie 203 F 100, AS01 _Screen 2 _1502                     |         |  |         |         |
| 20.R 91B _LA_Amntic_203_P 100_A301_S creen_3_13693                      |         |  |         |         |
| 21 R 91B _LA_Amntic_203 P 100_A301_S creen_4_13694                      |         |  |         |         |
| 22 R 91A, M A. RoadSigns, P 100, A203, Screen, 2, 13689                 |         |  |         |         |
| 23 R 91A MEA ROAdSigns _P100_A203_Screen 3_13090                        |         |  |         |         |
| 24.R 91A_M A_Ro adSigns_P 100_A203_S creen_4_13691                      |         |  |         |         |
| 25 R.01 B L.A., Bictions 402, V2, Screens 2, 16058                      |         |  |         |         |

|  |  | I | it |
|--|--|---|----|
|  |  |   |    |
|  |  |   |    |
| Name   |  |   |    |
| 26 R 91B LA Fletion 402 V2 Screen 3 16059                                      |  |   |    |
| 27 R 91B LA Fiction 402 V2 Screen 4, 16060                                     |  |   |    |
| 28 R 91B _MA_Cake Making J a Ge Ka Ko_P 100_A203_a https://www.api.org/10.1767 |  |   |    |
| 29. R. 91B _MA_Cake Miking_J a Ge Ka Ko_P. 100_A203_a tt1_S creen_3_13768      |  |   |    |
| 30 R 91B _MA_Cale Miking_1 a Ge Ka Ko_P 100_A203_a lt1_S creen_4_13769         |  |   |    |
| 31 R 91B _SS_Reading_203_P 100_A301_S creen_2_13698                            |  |   |    |
| 32.R 91B _SS_Reading_203_P 100_A301_S creen_3_13699                            |  |   |    |
| 33.R 91B_SS_Reading_203_P 100_A301_S creen_4_13700                             |  |   |    |
| 34.R.91C _SC_P lines InSpace_402_V2_Screen_2_16000                             |  |   |    |
| 35.R 91C _SC_P lints InSpace_402_V2_Screen_3_16071                             |  |   |    |
| 36.R 91C_SC_P lants InSpace_402_V2_Screen_4_16072                              |  |   |    |
| 37.R 91B _LA_Mattic_203_P 100_A301_S creen_2_13704                             |  |   |    |
| 88.R.91B LA, Muttie: 203_P.100_A301_S.creen_3_13705                            |  |   |    |
| 39.R 91B _LA_Mattie_203_P 100_A301_S creen_4_13706                             |  |   |    |
| 10.R 91B _MA_CircumterencemidDiameter_ryro_P 100_A203_S creen_2_13707          |  |   |    |
| 41.R.91B_MA_CircumferenceandDiameter_tyro_P100_A203_S creen_3_13708            |  |   |    |
| 32.R.91B_MA_CircumferenceandDiameter_ryro_P100_A203_S creen_4:13709            |  |   |    |
| 13.R.91C _SS_BillOfRights_403_Screen_2_17071                                   |  |   |    |
| 14.R.91C _SS_BillOfRights_403_Screen_3_17072                                   |  |   |    |
| 35 R 91C _SS_BillORlights _403_Screen _4_17073                                 |  |   |    |
| 36 R 91B _SC_Electro magnetis m_403_Screen_2_17079                             |  |   |    |
| 37.R.91B_SC_Electro magnetis m_403_Screen_3_17080                              |  |   |    |
| 38.R.91B_SC_Electro magnetis m_403_Screen_4_17081                              |  |   |    |
| 19.R.91C _LA_Drima_402_V1_S creen_2_14975                                      |  |   |    |
| 50.R.91C _LA_Drama_402_V1_S creen_3_14976                                      |  |   |    |
| 51.R. 91C _LA_Drama_402_VL_Screen_4_14977                                      |  |   |    |
| 52.R.91C_MA_Functions_401_V1_S-creen_2_13968                                   |  |   |    |
| 53.R.91C_MA_Functions_401_V1_Screen_3_13969                                    |  |   |    |
| 34 R 91C _MA_Functions_401_V1_S creen_4_13970                                  |  |   |    |
| 35.R 91C _SS_Mes o po tamia_401_V2_S creen_2_14634                             |  |   |    |
| 36.R.91C_SS_Mes o po tamia_401_V2_S creen_3_14635                              |  |   |    |
| 57.R 91C _SS_Mes o po tamia_401_V2_S creen_4_14636                             |  |   |    |
| 58.R.91C _SC_pHScale_P-100_A201_S-creen_2_13785                                |  |   |    |
| 99 R 91C - SC pHScale, P 100 A201, S creek 3, 13786                            |  |   |    |
| REPORT SECTION FOR ADDRESS OF STREET   |  |   |    |

|   |  |  |  |  | outfit |  |
|---|--|--|--|--|--------|--|
| Name  |  |  |  |  |        |  |
| 51.R 91C . LA_Malta 203.P 100_A301_L_S creen_2_13731                  |  |  |  |  | 1.02   |  |
| 22.R.91C [LA: Malla: 203. P 100 [A301] L [S creen, 3: 13732]          |  |  |  |  | 0.87   |  |
| 53.R.91C LA_Multa_203_P.100_A301_E_S.creen_4_13733                    |  |  |  |  | 0.91   |  |
| 54.R.91C_MA_CircumferenceandDiameter_tyro_P.100_A203_Screen_2_13722   |  |  |  |  | 0.86   |  |
| 55.R.91C_MA_ChrumferenceandDiameter_ryro_P-100_A203_S-creen_3_13723   |  |  |  |  | 0.86   |  |
| 56.R 91C _MA_CircumferenceandDiameter_ryro_P 100_A203_S creen_4_13724 |  |  |  |  | 0.99   |  |
| 37.R.91C [SS] DeclarationOfIndependence 403 [Screen 2] 17075          |  |  |  |  | 1.03   |  |
| SS.R.91C_SS_Declaratio nOfIndependence_403_Screen_3_17076             |  |  |  |  | 0.84   |  |
| 59.R 91C _SS_Declaratio nOfIndependence_403_Screen_4_17077            |  |  |  |  | 0.98   |  |
| 10.R.91C SC Elas tic Energy 403 Screen 2, 17091                       |  |  |  |  | 0.94   |  |
| TLR 91C_SC_Elastic_Energy_403_Screen_3_17001                          |  |  |  |  | 1.06   |  |
| 72ROTC_SC/Blastic Brougy 403_Screen 4, 17093                          |  |  |  |  | 0.97   |  |

# 2.1.3 Writing

2.1.3.1 Grade 1

# Table 2.1.3.1.1

## Complete Task Analysis and Summary: Writ 1 A S403 Online

|   | Average | Average | Average |
|---|---------|---------|---------|
|   |         |         |         |
|   |         |         |         |
| Task Type   |         |         |         |
| Constructed Response  |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
| Name  |         |         |         |
| 1.W01A_S1_PartAH8_202_P100_A302_1424  |         |         |         |
| 2.W01A_S1_GoingToSchoolPartB_402_1477   |         |         |         |
| 3.W01A_S1_GoingToSchoolPartC_402_1591   |         |         |         |
| 4.W01A_SI_PartDSentencesAboutMe_P100_   |         |         |         |
| Raw Score   |         |         |         |
| Distribution by Task  |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
| Task Type<br>Constructed Response<br>Name<br>1.W01A, SLPanAH8, 202, P100, A302, 1420<br>2.W01A, SLPanAH8, 202, P100, A302, 1427<br>3.W01A, SL Going ToSchoolPanB, 402, 1477<br>3.W01A, SL Going ToSchoolPanC, 402, 1591<br>4.W01A, SL Going ToSchoolPanC, 402, 1591<br>4.W01A, SL Going ToSchoolPanC, 402, 1591<br>5.W01A, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51 |         |         |         |
|   |         |         |         |

# Table 2.1.3.1.2

| Com | nlete T | ask A  | nalvsis | and | Summary. | Writ 1   | B/C S4       | 403 Online |
|-----|---------|--------|---------|-----|----------|----------|--------------|------------|
| Com | picic i | uon 11 | marysis | ana | Summary. | ** IIC I | $\mathbf{D}$ | ros onnie  |

|   |  | Average | Average  |
|---|--|---------|----------|
|   |  |         | Outfit   |
|   |  |         | Mean     |
| Task Type   |  |         | Square   |
| Constructed Response  |  |         | 0.52     |
| Constructed Response  |  |         | ntistics |
|   |  |         | Outfit   |
| Name  |  |         | Mnsq     |
| 1.W01B_S1_SpecialMemory_403_16402   |  |         | 0.78     |
| 2.W01C_MS_FlowerFruit_402_14960   |  |         | 0.49     |
| 3.W01C_IT_GoingToLibrary_403_16276  |  |         | 0.27     |
| Raw Score   |  |         |          |
| Name<br>.W01B_SI_SpecialMemory_403_16402<br>2.W01C_MS_FlowerFmit_402_14960<br>3.W01C_FT_GoingToLibrary_403_16276<br>Raw Score<br>Distribution by Task |  |         |          |
|   |  |         |          |
|   |  |         |          |
|   |  |         |          |
|   |  |         |          |
|   |  |         |          |
|   |  |         |          |
|   |  |         |          |
|   |  |         |          |
|   |  |         |          |

# 2.1.3.2 Grades 2–3

### Table 2.1.3.2.1

Complete Task Analysis and Summary: Writ 2-3 A S403 Online

| Task Type   | • | Average | Average | Average |
|---|---|---------|---------|---------|
|   |   |         |         |         |
|   |   |         |         |         |
| Task Type   |   |         |         |         |
| Constructed Response  |   |         |         |         |
|   |   |         |         |         |
| Name  |   |         |         |         |
|   |   |         |         |         |
| Name  |   |         |         |         |
| 1.W23A_SI_AtTheLibrary_403_16405  |   |         |         |         |
| 2.W23A_LA_ComputerArt_403_16448   |   |         |         |         |
| 3.W23A_MS_AnimalHomes_402_14792   |   |         |         |         |
| Raw Score   |   |         |         |         |
| Distribution by Task  |   |         |         |         |
| W23A_S1_AtTheLibrary_403_16405<br>2W23A_LA_ComputerArt_403_16448<br>3W23A_MS_AnimalHomes_402_14792<br>Raw Score<br>Distribution by Task |   |         |         |         |
|   |   |         |         |         |
|   |   |         |         |         |
|   |   |         |         |         |
|   |   |         |         |         |
|   |   |         |         |         |
|   |   |         |         |         |
|   |   |         |         |         |
|   |   |         |         |         |

### Table 2.1.3.2.2

| Task Type  |  |  |  |
|--|--|--|--|
| Constructed Response   |  |  |  |
| Constructed Response   |  |  |  |
| Nama   |  |  |  |
| rumne<br>1/W233_S1_WorkChoices_403_16407<br>2/W23C_MS_HeartRateChanges_402_15549<br>3/W23C_1T_ClassEvent_403_16450 |  |  |  |
| 2.W23C_MS_HeartRateChanges_402_15549   |  |  |  |
| 3.W23C_IT_ClassEvent_403_16450   |  |  |  |
| Raw Score  |  |  |  |
| 3.w23C_11LChissEvent_403_16450<br>Raw Score<br>Distribution by Task  |  |  |  |
|  |  |  |  |
|  |  |  |  |
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|  |  |  |  |

Complete Task Analysis and Summary: Writ 2-3 B/C S403 Online

# 2.1.3.3 Grades 4–5

### Table 2.1.3.3.1

#### Complete Task Analysis and Summary: Writ 4-5 A S403 Online

|   |   | Average |       | Average | Average |
|---|---|---------|-------|---------|---------|
|   |   |         |       |         |         |
|   |   |         |       |         |         |
| Task Type   |   |         |       |         |         |
| Constructed Response  |   |         |       |         |         |
|   |   |         |       |         |         |
|   |   |         |       |         |         |
|   |   |         |       |         |         |
| Name  |   |         |       |         |         |
| 1.W45A_S1_GoingToLunch_403_Screen_3_  |   |         |       |         |         |
| 2.W45A_LA_SoccerGame_403_Screen_4_1   |   |         |       |         |         |
| 3.W45A_MS_RobinandAlbatross_402_Scree   |   |         |       |         |         |
| Raw Score   |   |         |       |         |         |
| Distribution by Task  |   |         |       |         |         |
|   |   |         |       |         |         |
|   |   |         |       |         |         |
|   |   |         |       |         |         |
|   |   |         |       |         |         |
|   |   |         |       |         |         |
|   |   |         |       |         |         |
|   |   |         |       |         |         |
|   |   |         |       |         |         |
| Task Type<br>Constructed Response<br>Name<br>W45A: SL Going ToLunch: 403: Screen: 4:<br>W45A: LA: SoccerGame: 403: Screen: 4:<br>W45A: MS: RobinandAtbarross: 402: Scree<br>Raw Score<br>Distribution by Task | 9 | 0.00%   | 0.00% | 0.00%   |         |

| Table | 2.1.3 | 3.3.2 |
|-------|-------|-------|
|       |       |       |

| Complete Task | Analysis and | Summary. | Writ 4-5                            | B/C S403 Online |
|---------------|--------------|----------|-------------------------------------|-----------------|
| Complete Task | mary sis and | Summary. | <b>WIII H</b> <sup>-</sup> <b>J</b> | D/C 5405 Onnie  |

|   | Average | Average | Average |
|---|---------|---------|---------|
| Task Type                                 |         |         | Outfit  |
|   |         |         |         |
|   |         |         |         |
| Constructed Response                      |         |         | 0.53    |
|   |         |         |         |
| Name                                      |         |         |         |
|   |         |         |         |
| Name                                      |         |         | Mnsq    |
| 1.W45B_S1_LibraryRules_403_Screen_2_16344 |         |         | 0.82    |
| 2.W45C_MS_TulipGrowth_402_Screen_4_1541   |         |         | 0.49    |
| 3.W45C_IT_AncientChinn_401_Screen_5_1447  |         |         | 0.28    |
| Raw Score                                 |         |         |         |
| Raw Score<br>Distribution by Task         |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |

# 2.1.3.4 Grades 6–8

### Table 2.1.3.4.1

# Complete Task Analysis and Summary: Writ 6-8 A S403 Online

|   | Average | Average | Average |
|---|---------|---------|---------|
|   |         |         |         |
|   |         |         |         |
| Task Type   |         |         |         |
| Constructed Response  |         |         |         |
| Task Type<br>Constructed Response   |         |         |         |
|   |         |         |         |
|   |         |         |         |
| Name  |         |         |         |
| 1.W68A_SI_StudyPrefs_403_Screen_4_16426_  |         |         |         |
| 2.W68A_LA_AccidentalSwap_403_Screen_4_  |         |         |         |
| 3.W68A_MS_HeightComparison_402_Screen_  |         |         |         |
| Raw Score   |         |         |         |
| Name<br>LW68A_SI_SudyPrefs_403_Screen_4_16426<br>2W68A_LA_AccidentalSwap_403_Screen_4_<br>3W68A_MS_HeightComparison_402_Screen<br>Raw Score<br>Distribution by Task |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |

# Table 2.1.3.4.2

Complete Task Analysis and Summary: Writ 6-8 B/C S403 Online

| Task Type   |  | 57 0 | Average<br>Infit | Average<br>Outfit |
|---|--|------|------------------|-------------------|
| Task Tyne   |  |      |                  |                   |
| Name  |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |
| Name  |  |      |                  |                   |
| 1. w0ab_31_3ch00lC0mputers_403_screen_2_  |  |      |                  |                   |
| 2.W68C_MS_FishpH_402_Screen_5_15418_17  |  |      |                  |                   |
| 3.W68C_IT_BookMovie_403_Sereen_4_16388  |  |      |                  |                   |
| Raw Score   |  |      |                  |                   |
| 2.W68C_MS_FishpH_402_Screen_5_15418_17<br>3.W68C_IT_BookMovie_403_Screen_4_16388<br>Raw Score<br>Distribution by Task |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |
|   |  |      |                  |                   |

# 2.1.3.5 Grades 9–12

### Table 2.1.3.5.1

# Complete Task Analysis and Summary: Writ 9-12 A S403 Online

| Task Type<br>Constructed Response<br>Name<br>(W91A_SL_HeatthEvents_403_Screen_5_1<br>2W91A_LA_Sprinkler_403_Screen_5_1<br>Raw Score<br>Distribution by Task | Average | Average | Average |
|---|---------|---------|---------|
|   |         |         |         |
| Task Tuna   |         |         |         |
| Lask Type   |         |         |         |
| Constructed Response  |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
| Name  |         |         |         |
| 1.W91A_S1_HealthEvents_403_Screen_3_1   |         |         |         |
| 2.W91A_LA_Sprinkler_403_Screen_4_119  |         |         |         |
| 3.W91A_MS_WaterTemp_402_Screen_5_1  |         |         |         |
| Raw Score   |         |         |         |
| Distribution by Task  |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |
|   |         |         |         |

### Table 2.1.3.5.2

| Complete Task Analy | vsis and Summary <sup>.</sup> Writ | t 9-12 B/C S403 Online     |
|---------------------|------------------------------------|----------------------------|
| Complete Lask I mai | ysis and Summary. Win              | 1 - 12  D/C = 5 + 03  Omme |

| Task Type  | Average | Average | Average  |
|--|---------|---------|----------|
|  |         |         | Outfit   |
| Task Type  |         |         | Square   |
| Constructed Boursenue  |         |         | -        |
| Constructed Response   |         |         | 0.09     |
|  |         |         | atistics |
|  |         |         | Ontfit   |
| Constructed Response<br>Name   |         |         | Mnsq     |
| 1.W91B_S1_Scholarship_403_Screen_2_16384.  |         |         | 0.96     |
| 2.W91B_MS_Viscosity_P100_A203_Screen_2_  |         |         | 0.69     |
| 2.W91B_MS_Viscosity_P100_A203_Screen_2_<br>3.W91C_IT_Architecture_402_Screen_4_16506 |         |         | 0.42     |
| Raw Score  |         |         |          |
| Raw Score<br>Distribution by Task  |         |         |          |
|  |         |         |          |
|  |         |         |          |
|  |         |         |          |
|  |         |         |          |
|  |         |         |          |
|  |         |         |          |
|  |         |         |          |
|  |         |         |          |
|  |         |         |          |

# 2.1.4 Speaking

# 2.1.4.1 Grade 1

### Table 2.1.4.1

#### Complete Task Analysis and Summary: Spek 1 S403 Online

|                                       | <b>J</b> 1 |  |  | Average | Average |
|---------------------------------------|------------|--|--|---------|---------|
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
| Task Type                             |            |  |  |         |         |
| Constructed Response                  |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
| Name                                  |            |  |  |         |         |
| 1.S01AP_S1_ClassroomJobs_403_Screen_3 |            |  |  |         |         |
| 2.S01AC_S1_ClassroomJobs_403_Screen_1 |            |  |  |         |         |
| 3.S01C_SI_ClassroomJobs_403_Screen_11 |            |  |  |         |         |
| 4.S01AP_LS_ArtTeacher_403_Screen_3_P  |            |  |  |         |         |
| 5.S01AC_LS_ArtTeacher_403_Screen_9_P  |            |  |  |         |         |
| 6.S01C_LS_ArtTeacher_403_Screen_15_P  |            |  |  |         |         |
| 7.S01AP_MS_Elephants_402_Screen_4_P1  |            |  |  |         |         |
| 8.S01AC_MS_Elephants_402_Screen_11_1  |            |  |  |         |         |
| 9.S01C_MS_Elephants_402_Screen_19_P5  |            |  |  |         |         |
| Raw Score                             |            |  |  |         |         |
| Distribution by Task                  |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |
|                                       |            |  |  |         |         |

# 2.1.4.2 Grades 2–3

### Table 2.1.4.2

### Complete Task Analysis and Summary: Spek 2-3 S403 Online

|                                   |  |  |  | Average<br>Outfit |
|-----------------------------------|--|--|--|-------------------|
|                                   |  |  |  | Mean              |
| Task Type                         |  |  |  | Square            |
| Task Type<br>Constructed Response |  |  |  | 0.63              |
|                                   |  |  |  |                   |
|                                   |  |  |  | tistics           |
|                                   |  |  |  | Outfit            |
| Name                              |  |  |  | Mnsq              |
|                                   |  |  |  | 0.39              |
| 2.S23AC_S1_SpecialChoice_403_Scr  |  |  |  | 0.82              |
| 3.S23C_S1_SpecialChoice_403_Scree |  |  |  | 0.79              |
|                                   |  |  |  | 0.33              |
|                                   |  |  |  | 0.69              |
|                                   |  |  |  | 0.80              |
|                                   |  |  |  | 0.2.8             |
|                                   |  |  |  | 0.72              |
|                                   |  |  |  | 0.84              |
| Raw Score                         |  |  |  |                   |
|                                   |  |  |  |                   |
|                                   |  |  |  |                   |
|                                   |  |  |  |                   |
|                                   |  |  |  |                   |
|                                   |  |  |  |                   |
|                                   |  |  |  |                   |
|                                   |  |  |  |                   |
|                                   |  |  |  |                   |
|                                   |  |  |  |                   |
|                                   |  |  |  |                   |

# 2.1.4.3 Grades 4–5

### Table 2.1.4.3

# Complete Task Analysis and Summary: Spek 4-5 S403 Online

|                                     |  |  |  |  | Average |  |  |
|-------------------------------------|--|--|--|--|---------|--|--|
|                                     |  |  |  |  | Outfit  |  |  |
|                                     |  |  |  |  | Mean    |  |  |
| Task Type                           |  |  |  |  | Square  |  |  |
| Task Type<br>Constructed Response   |  |  |  |  | 0.54    |  |  |
|                                     |  |  |  |  |         |  |  |
|                                     |  |  |  |  |         |  |  |
|                                     |  |  |  |  |         |  |  |
| Name                                |  |  |  |  |         |  |  |
| 1.S45AP_SI_CafeteriaRules_403_Scree |  |  |  |  | 0.20    |  |  |
| 2.S45AC_SI_CafeteriaRules_403_Scre  |  |  |  |  | 0.74    |  |  |
| 3.S45C_SI_CafeteriaRules_403_Screen |  |  |  |  | 0.85    |  |  |
| 4.S45AP_LS_Kwolek_403_Screen_3_I    |  |  |  |  | 0.15    |  |  |
| 5.S45AC_LS_Kwolek_403_Screen_9_     |  |  |  |  | 0.62    |  |  |
| 5.S45C_LS_Kwolek_403_Screen_15_I    |  |  |  |  | 0.66    |  |  |
| 7.S45AP_MS_Circuits_402_Screen_4    |  |  |  |  | 0.15    |  |  |
| S.S45AC_MS_Circuits_402_Screen_11   |  |  |  |  | 0.72    |  |  |
| 0.S45C_MS_Circuits_402_Screen_18_   |  |  |  |  | 0.74    |  |  |
| Raw Score                           |  |  |  |  |         |  |  |
| Distribution by Task                |  |  |  |  | 4       |  |  |
|                                     |  |  |  |  | NA      |  |  |
|                                     |  |  |  |  | 4.61%   |  |  |
|                                     |  |  |  |  | 2.78%   |  |  |
|                                     |  |  |  |  | NA      |  |  |
|                                     |  |  |  |  | 2.48%   |  |  |
|                                     |  |  |  |  | 2.45%   |  |  |
|                                     |  |  |  |  | NA      |  |  |
|                                     |  |  |  |  | 7.27%   |  |  |
|                                     |  |  |  |  | 2.51%   |  |  |

# 2.1.4.4 Grades 6–8

### Table 2.1.4.4

# Complete Task Analysis and Summary: Spek 6-8 S403 Online

| Task Type                          |  |  |  |  |
|------------------------------------|--|--|--|--|
| Cask Type<br>Constructed Response  |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |
| Name                               |  |  |  |  |
| 1.S68AP_SI_ClassroomRules_403_Scr  |  |  |  |  |
| 2.S68AC_SI_ClassroomRules_403_Ser  |  |  |  |  |
| 3.S68C_SI_ClassroomRules_403_Scree |  |  |  |  |
| LS68AP_LS_Blodgert_402_Screen_3_I  |  |  |  |  |
| 5.S68AC_LS_Blodgett_402_Screen_8_  |  |  |  |  |
| 5.S68C_LS_Blodgett_402_Screen_13_1 |  |  |  |  |
| 7.S68AP_MS_Radar_402_Screen_4_P1   |  |  |  |  |
| 3.S68AC_MS_Radar_402_Screen_11_F   |  |  |  |  |
| 9.S68C_MS_Radar_402_Screen_19_P5   |  |  |  |  |
| Raw Score                          |  |  |  |  |
| Distribution by Task               |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |
|                                    |  |  |  |  |

# 2.1.4.5 Grades 9–12

### Table 2.1.4.5

# Complete Task Analysis and Summary: Spek 9-12 S403 Online

|                                  |  |  |  |  | Average | Average  |
|----------------------------------|--|--|--|--|---------|----------|
|                                  |  |  |  |  |         | Outfit   |
|                                  |  |  |  |  |         | Mean     |
| Task Type                        |  |  |  |  |         | Square   |
| Constructed Response             |  |  |  |  |         | 0.55     |
|                                  |  |  |  |  |         |          |
|                                  |  |  |  |  |         | itistics |
|                                  |  |  |  |  |         | Outfit   |
| Name                             |  |  |  |  |         | Mnsq     |
| 1.S91AP_S1_AcademicRegs_403_Sci  |  |  |  |  |         | 0.45     |
| 2.S91AC_SI_AcademicReqs_403_Sc   |  |  |  |  |         | 0.62     |
| 3.S91C_SI_AcademicReqs_403_Scre  |  |  |  |  |         | 0.57     |
| 4.S91AP_LS_Libraries_403_Screen_ |  |  |  |  |         | 0.36     |
| 5.S91AC_LS_Libraries_403_Screen_ |  |  |  |  |         | 0.59     |
| 5.S91C_LS_Libraries_403_Screen_1 |  |  |  |  |         | 0.63     |
| 7.S91AP_MS_Carbon_402_Screen_4   |  |  |  |  |         | 0.34     |
| 8.S91AC_MS_Carbon_402_Screen_1   |  |  |  |  |         | 0.62     |
| 9.S91C_MS_Carbon_402_Screen_20   |  |  |  |  |         | 0.76     |
| Raw Score                        |  |  |  |  |         |          |
| Distribution by Task             |  |  |  |  |         | 4        |
|                                  |  |  |  |  |         | NA       |
|                                  |  |  |  |  |         | 1.47%    |
|                                  |  |  |  |  |         | 1.78%    |
|                                  |  |  |  |  |         | NA       |
|                                  |  |  |  |  |         | 2.11%    |
|                                  |  |  |  |  |         | 2.58%    |
|                                  |  |  |  |  |         | NA       |
|                                  |  |  |  |  |         | 0.62%    |
|                                  |  |  |  |  |         | 0.90%    |

# 2.2 DIF Analysis and Summary

Differential item analysis (DIF) attempts to investigate whether performances on items were influenced by factors extraneous to English language proficiency (i.e., the construct being measured on the test). In other words, DIF attempts to find items that may be functioning differently for different groups based on criteria irrelevant to what is being tested. The performance of students on ACCESS for ELLs Online items and tasks is compared by dividing students into two different groupings: first, males versus females; second, students of Hispanic ethnic background versus students of all other backgrounds. Students for whom gender or ethnicity<sup>1</sup> was unknown were excluded from both analyses. Two commonly used procedures for detecting DIF were used: one for dichotomously scored items (Listening and Reading), conducted prior to operational testing, and one for polytomously scored items (Writing and Speaking), conducted on population data subsequent to the close of operational testing.

# **Dichotomous Items**

Following procedures that were originally proposed by the Educational Testing Service (ETS), the Mantel-Haenszel (M-H) chi-square statistic (Mantel & Haenszel, 1959) was used for dichotomous items. This procedure compares item-level performances of students in the two groups (e.g., males versus females) who are divided into subgroups based on their performance on the total test. It is assumed that, if there is no DIF, a similar percentage of students in each group should get the item correct at any ability level (based on performance on the total test). The M-H chi-square statistic is used to check the probability that the two groups performed comparably on each item across the ability groupings. The statistic is transformed into the "M-H delta" scale. This scale is symmetrical around zero, with a delta zero interpreted as indicating that neither group is favored. A positive result indicates that one group is favored; a negative result indicates that the other group is favored.

The existing M-H procedure was designed for fixed forms, where all test takers take exactly the same set of items; therefore, the test takers can be matched on the number-correct score when computing the M-H statistic. In the multistage computerized adaptive test (CAT) condition, however, not all students take exactly the same set of items; thus, it is not possible to match students on the number-correct score. Instead, a CAT M-H DIF procedure (Zwick, Thayer, & Wingersky, 1993) was used to examine DIF for the Listening and Reading domains. First, the examinee's expected true score for the entire item pool is derived. To derive the expected true score metric by calculating the sum of the item response functions in the operational item pool, which is evaluated at the estimated ability level of the test taker. The expected true score of the examinees is used as the matching variable for the M-H DIF procedure. Once examinees are matched on the

<sup>&</sup>lt;sup>1</sup> In the dataset, Hispanic ethnicity, as well as each of the race categories, is coded as a binary variable (Y/blank). Ethnicity information is counted as "Unknown" in cases where the student is recorded as blank for Hispanic ethnicity and also blank for every race category.

expected true score, the ordinary M-H DIF procedure and the ETS evaluation criterion for severity of M-H DIF can be applied. In CAL's implementation of this method, examinees are matched for M-H DIF analysis on the basis of this expected true score using two-unit intervals, as recommended by Zwick and Bridgeman (2014). A two-step purification process was used in conducting the DIF analysis; that is, items with C-level DIF in the first pass were removed from the matching variable in the second stage, and the DIF was then recalculated for the remaining items.

Because DIF is measured on a continuous scale, and because most items are likely to show some degree of DIF, it is useful to have guidelines to determine when the level of DIF requires further review of the item. We follow the guidance provided by ETS (Zieky, 1993) to classify items into DIF levels as follows:

- A (no DIF), when the absolute value of delta is <1.0
- B (weak DIF), when the absolute value of delta is 1.0 to 1.5
- C (strong DIF), when the absolute value of the delta is >1.5

# **Polytomous Items**

For polytomous items (i.e., Writing and Speaking tasks), a similar approach is used. It is based on the M-H chi-square statistic and the standardized mean difference following procedures again developed by ETS (Zwick, Donoghue, & Grima, 1993; Allen, Carlson, & Zalanak, 1999). The DIF procedures developed by ETS for polytomous items were used to identify tasks that exhibit DIF. JMetrik (Meyer, 2018), an open source computer program for psychometric analysis, was used in conducting the analyses. The procedures implemented in JMetrik first calculate the Cochran-Mantel-Haenszel chi-square statistic for testing statistical significance. This statistic gives an indication of the probability that observed differences are the result of chance but does not indicate how significant that difference is. To indicate how significant the difference is, the standardized mean difference between the performances of the two groups being compared is calculated. The standardized mean difference compares the means of the two groups, adjusting for differences in the distribution of the groups across the values of the total raw scores. To standardize the outcome, this difference is divided by the item score range and serves as an effect size measure for the Cochran-Mantel-Haenszel chi-square statistic. This effect size measure (reported as standardized P-DIF in JMetrik) ranges from -1 to 1, which may present some interpretation challenges. To mitigate this, the absolute value is taken in JMetrik (Meyer, 2018), thereby restricting the range of the rescaled effect size (standardized P-DIF\*) to fall between 0 and 1. The effect size flagging criterion for polytomous items, proposed by ETS (Allen et al., 1999), is also rescaled to the standardized P-DIF\* metric (Meyer, 2018).

Following guidance proposed by ETS for the National Assessment of Educational Progress (Allen et al., 1999), ACCESS for ELLs Writing and Speaking tasks are classified into three DIF levels as follows:

- AA (no DIF), when the Cochran-Mantel-Haenszel chi-square statistic is not significant or when it is significant and standardized P-DIF\* is <0.05
- BB (weak DIF), when the Cochran-Mantel-Haenszel chi-square statistic is significant and standardized P-DIF\* is ≥0.05 but <0.10
- CC (strong DIF), when the Cochran-Mantel-Haenszel chi-square statistic is significant and standardized P-DIF\* is ≥0.10

The tables in this section provide a summary of the findings of the DIF analyses at the top, followed by information for any item or task which showed B, BB, C, or CC-level DIF. The first column gives the DIF level: A, B, or C for dichotomous items or AA, BB, or CC for polytomous tasks (i.e., Writing and Speaking tasks). The next columns show the contrasting groups in the DIF analyses: either male versus female or Hispanic versus non-Hispanic other ethnicities. The top part of the table summarizes the number of items which exhibit DIF falling into each of the three categories (A, B, or C for Listening and Reading, and AA, BB, or CC for Writing and Speaking). Any items that show B (or BB) or C (or CC)–level DIF are reported in the bottom part of the table.

Items and tasks that show C-level (or CC-level) DIF are investigated by a team of content experts to determine if any construct-irrelevant factors can be identified that may contribute to DIF. For dichotomous items, DIF analysis is conducted prior to operational testing, and the content of any items that show C-level DIF is reviewed prior to item selection. Items of concern are removed from the item selection process. For polytomous items, if content experts identify concerning construct-irrelevant factors, the task will be removed from the test for the next operational year.

# 2.2.1 Listening

# 2.2.1.1 Grade 1

### Table 2.2.1.1

DIF Analysis and Summary: List 1 S403 Online

| DIF Summary  |  |  |  |
|--|--|--|--|
| DIF<br>Level                                       |  |  |  |
| A  |  |  |  |
| В  |  |  |  |
| $C_{-}$  |  |  |  |
|  |  |  |  |
| Norma  |  |  |  |
| Ivanite  |  |  |  |
| 17.L01B SC Properties OfObjects 402 Screen 3 14952 |  |  |  |

# 2.2.1.2 Grades 2–3

### Table 2.2.1.2

DIF Analysis and Summary: List 2-3 S403 Online

| DIF Summary                                    |  |  |  |  |
|--|--|--|--|--|
| DIF  |  |  |  |  |
| Level  |  |  |  |  |
| A  |  |  |  |  |
| В  |  |  |  |  |
| C  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Name   |  |  |  |  |
| 31.23A_SI_ThankYo nCards_P-100_S-creen_2_13788 |  |  |  |  |
|  |  |  |  |  |

# 2.2.1.3 Grades 4–5

## Table 2.2.1.3

DIF Analysis and Summary: List 4-5 S403 Online

| DIF Summary   | Male/ |  |  | c/Other |
|---|-------|--|--|---------|
| DIF   |       |  |  |         |
| A   |       |  |  |         |
| B   |       |  |  |         |
| C   |       |  |  |         |
|   |       |  |  |         |
|   |       |  |  |         |
| Name  |       |  |  |         |
| 12.13458 _MA_The Schold May cold P-100.5 ereen 4, 12919 |       |  |  |         |
| 26.L45B_SS_FarmingInAncientEgypt_402_Screen_3_14946     |       |  |  |         |
| 29.L45B_SC_Dynamic Dunes_402_Screen_3_14939             |       |  |  |         |
| 34 L45B, MA, FractionBars _403 [Screen 2] 16708         |       |  |  |         |
| 46.E45C SC From Rocks To So if P 100 Serven 2 14212     |       |  |  |         |

## 2.2.1.4 Grades 6–8

# Table 2.2.1.4

DIF Analysis and Summary: List 6-8 S403 Online

| DIF Summary  |  |  |  |  |
|--------------|--|--|--|--|
| DIF<br>Level |  |  |  |  |
| Λ            |  |  |  |  |
| В            |  |  |  |  |
| С            |  |  |  |  |
|              |  |  |  |  |
|              |  |  |  |  |
| Name         |  |  |  |  |
|              |  |  |  |  |

# 2.2.1.5 Grades 9–12

### Table 2.2.1.5

DIF Analysis and Summary: List 9-12 S403 Online

| DIF Summary  |  |  |  |  |
|--|--|--|--|--|
| DIF<br>Level   |  |  |  |  |
| A  |  |  |  |  |
| B  |  |  |  |  |
| C  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Name   |  |  |  |  |
| 37.L91C_EA_Pioleny_P100_Siteen_2_12893                 |  |  |  |  |
| 521.91C MA angles (jo gr. P-10) A202(Streen)2, 13865   |  |  |  |  |
| 541L911C _ MIA_anglos_jo_ga_P-100_A202_S creen_4_13867 |  |  |  |  |

# 2.2.2 Reading

2.2.2.1 Grade 1

### Table 2.2.2.1

DIF Analysis and Summary: Read 1 S403 Online

| DIF Summary   |  |  |  |  |
|---|--|--|--|--|
| DIF   |  |  |  |  |
| A   |  |  |  |  |
| В   |  |  |  |  |
| C   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
| Name  |  |  |  |  |
| 12 D 01 C 98 D atflet at D 100 A 202 B array 2, 12212 |  |  |  |  |

# 2.2.2.2 Grades 2–3

### Table 2.2.2.2

DIF Analysis and Summary: Read 2-3 S403 Online

|  |  | :/Other   |
|--|--|-----------|
|  |  | Favoring  |
|  |  | Other (O) |
|  |  | 38        |
|  |  | 0         |
|  |  | 0         |

## 2.2.2.3 Grades 4–5

### Table 2.2.2.3

DIF Analysis and Summary: Read 4-5 S403 Online

| DIF Summary  |  |  |  |  |  |
|--|--|--|--|--|--|
| DIF  |  |  |  |  |  |
| A  |  |  |  |  |  |
| В  |  |  |  |  |  |
| C  |  |  |  |  |  |
|  |  |  |  |  |  |
| Name   |  |  |  |  |  |
| 7.R 45A LA_Recycle OrCompost_402_V2_Screen_2_15991         |  |  |  |  |  |
| 25.R-45C_LA_Colo kingWithGrandpa_402_V1_S creen_2_16009    |  |  |  |  |  |
| 31 P. (SR. SS. Fauric And Clark, 402 M/L Storage, 2, 16017 |  |  |  |  |  |

# 2.2.2.4 Grades 6–8

## **Table 2.2.2.4**

DIF Analysis and Summary: Read 6-8 S403 Online

## 2.2.2.5 Grades 9–12

### Table 2.2.2.5

DIF Analysis and Summary: Read 9-12 S403 Online

| DIF Summary  |  |  |  |     |  |
|--|--|--|--|-----|--|
| DIF<br>Level   |  |  |  |     |  |
| A  |  |  |  | 3.3 |  |
| В  |  |  |  | 0   |  |
| C  |  |  |  | 0   |  |
|  |  |  |  |     |  |
| Name   |  |  |  |     |  |
| 25.R 91B LA Fiction 402 V2 Screen 2 16058              |  |  |  |     |  |
| 46.R 91B_SC_Electro magnetis m_403_Screen_2_17079      |  |  |  | H   |  |
| 52 D. O.C., MA. Europticany, 401, VI, Storeme 2, 12068 |  |  |  |     |  |

# 2.2.3 Writing

2.2.3.1 Grade 1

### Table 2.2.3.1.1

DIF Analysis and Summary: Writ 1 A S403 Online

| DIF Summary  |   |    |   |                       |
|--------------|---|----|---|-----------------------|
| DIF<br>Level |   |    |   | Favoring<br>Other (O) |
| AA           |   |    |   | 2                     |
| BB           |   |    |   | 0                     |
| CC           | 0 | () | 0 | 0                     |

#### Table 2.2.3.1.2

DIF Analysis and Summary: Writ 1 B/C S403 Online

|  |  |  | :/Other               |
|--|--|--|-----------------------|
|  |  |  | Favoring<br>Other (O) |
|  |  |  | 2                     |
|  |  |  | 0                     |
|  |  |  | 0                     |

## 2.2.3.2 Grades 2–3

Table 2.2.3.2.1

DIF Analysis and Summary: Writ 2-3 A S403 Online

|  |  |  | Hispanic/Other |  |  |
|--|--|--|----------------|--|--|
|  |  |  | Favoring       |  |  |
|  |  |  | 2              |  |  |
|  |  |  | 0              |  |  |
|  |  |  | 0              |  |  |

### Table 2.2.3.2.2

DIF Analysis and Summary: Writ 2-3 B/C S403 Online

|  |  |  | /Other                |
|--|--|--|-----------------------|
|  |  |  | Favoring<br>Other (O) |
|  |  |  | 2                     |
|  |  |  | 0                     |
|  |  |  | 0                     |

## 2.2.3.3 Grades 4–5

### Table 2.2.3.3.1

DIF Analysis and Summary: Writ 4-5 A S403 Online

|  |  |  | Favoring<br>Other (O) |  |  |
|--|--|--|-----------------------|--|--|
|  |  |  | 2                     |  |  |
|  |  |  | 0                     |  |  |
|  |  |  | 0                     |  |  |

### Table 2.2.3.3.2

DIF Analysis and Summary: Writ 4-5 B/C S403 Online

|  |  |  | Favoring<br>Other (O) |  |  |
|--|--|--|-----------------------|--|--|
|  |  |  | 2                     |  |  |
|  |  |  | 0                     |  |  |
|  |  |  | 0                     |  |  |

### 2.2.3.4 Grades 6–8

### Table 2.2.3.4.1

DIF Analysis and Summary: Writ 6-8 A S403 Online

|  |  |  | /Other                |
|--|--|--|-----------------------|
|  |  |  | Favoring<br>Other (O) |
|  |  |  | 2                     |
|  |  |  | 0                     |
|  |  |  | 0                     |

#### Table 2.2.3.4.2

DIF Analysis and Summary: Writ 6-8 B/C S403 Online

| DIF Summary  |  |  | Hispanic/Other        |  |  |
|--------------|--|--|-----------------------|--|--|
| DIF<br>Level |  |  | Favoring<br>Other (O) |  |  |
| AA           |  |  | 2                     |  |  |
| BB           |  |  | 0                     |  |  |
| CC           |  |  | 0                     |  |  |

# 2.2.3.5 Grades 9–12

### Table 2.2.3.5.1

DIF Analysis and Summary: Writ 9-12 A S403 Online

# Table 2.2.3.5.2

DIF Analysis and Summary: Writ 9-12 B/C S403 Online

|  |  |  | /Other                |
|--|--|--|-----------------------|
|  |  |  | Favoring<br>Other (O) |
|  |  |  | 1                     |
|  |  |  | 0                     |
|  |  |  | 0                     |

# 2.2.4 Speaking

# 2.2.4.1 Grade 1

### Table 2.2.4.1.1

DIF Analysis and Summary: Spek 1 Pre-A S403 Online

|  |  |  | Favoring<br>Other (O) |  |
|--|--|--|-----------------------|--|
|  |  |  |                       |  |
|  |  |  | 0                     |  |
|  |  |  | 0                     |  |

### Table 2.2.4.1.2

DIF Analysis and Summary: Spek 1 A S403 Online

|  |  | c/Other               |
|--|--|-----------------------|
|  |  | Favoring<br>Other (O) |
|  |  | 3                     |
|  |  | 0                     |
|  |  | 0                     |

# **Table 2.2.4.1.3**DIF Analysis and Summary: Spek 1 B/C S403 Online

| DBEShinmany | Male/J | Male/Female |  | C/Other |
|-------------|--------|-------------|--|---------|
|             |        |             |  |         |
|             |        |             |  |         |
|             |        |             |  |         |
|             |        |             |  |         |

# 2.2.4.2 Grades 2–3

### Table 2.2.4.2.1

DIF Analysis and Summary: Spek 2-3 Pre-A S403 Online

|  |  | :/Other               |
|--|--|-----------------------|
|  |  | Favoring<br>Other (O) |
|  |  | 2                     |
|  |  | 0                     |
|  |  | 0                     |

### Table 2.2.4.2.2

DIF Analysis and Summary: Spek 2-3 A S403 Online

### Table 2.2.4.2.3

DIF Analysis and Summary: Spek 2-3 B/C S403 Online

|  |  |  | :/Other               |
|--|--|--|-----------------------|
|  |  |  | Favoring<br>Other (O) |
|  |  |  | 3                     |
|  |  |  | 0                     |
|  |  |  | 0                     |

## 2.2.4.3 Grades 4–5

Table 2.2.4.3.1

DIF Analysis and Summary: Spek 4-5 Pre-A S403 Online

|  |  |  | :/Other               |
|--|--|--|-----------------------|
|  |  |  | Favoring<br>Other (O) |
|  |  |  | 1                     |
|  |  |  | 0                     |
|  |  |  | 0                     |

### Table 2.2.4.3.2

DIF Analysis and Summary: Spek 4-5 A S403 Online

| DIF Summary |  |  | Hispanic/Other |                       |  |
|-------------|--|--|----------------|-----------------------|--|
| DIF         |  |  |                | Favoring<br>Other (O) |  |
| AA          |  |  |                | 3                     |  |
| BB          |  |  |                | 0                     |  |
| CC          |  |  |                | 0                     |  |

#### Table 2.2.4.3.3

DIF Analysis and Summary: Spek 4-5 B/C S403 Online

|  |  |  | 0 |  |
|--|--|--|---|--|
|  |  |  | 0 |  |

### 2.2.4.4 Grades 6–8

### Table 2.2.4.4.1

DIF Analysis and Summary: Spek 6-8 Pre-A S403 Online

| DIF Summary |  |  |  |                       |
|-------------|--|--|--|-----------------------|
| DIF         |  |  |  | Favoring<br>Other (O) |
| AA          |  |  |  |                       |
| ВВ          |  |  |  | 0                     |
| CC          |  |  |  | 0                     |

#### Table 2.2.4.4.2

DIF Analysis and Summary: Spek 6-8 A S403 Online

| DIF Summary  | Male/I |  |  | :/Other               |
|--------------|--------|--|--|-----------------------|
| DHE<br>Level |        |  |  | Favoring<br>Other (O) |
| AA           |        |  |  | 3                     |
| BB           |        |  |  | 0                     |
| CC           |        |  |  | 0                     |

### Table 2.2.4.4.3

DIF Analysis and Summary: Spek 6-8 B/C S403 Online

|  |  |  | /Other                |
|--|--|--|-----------------------|
|  |  |  | Favoring<br>Other (O) |
|  |  |  | 3                     |
|  |  |  | 0                     |
|  |  |  | 0                     |

## 2.2.4.5 Grades 9–12

#### Table 2.2.4.5.1

DIF Analysis and Summary: Spek 9-12 Pre-A S403 Online

| DIF Summary |   |   |   |                       |
|-------------|---|---|---|-----------------------|
| DIF         |   |   |   | Favoring<br>Other (O) |
| AA          |   |   |   |                       |
| ВВ          |   |   |   | 0                     |
| CC          | 0 | 0 | 0 | 0                     |

#### Table 2.2.4.5.2

DIF Analysis and Summary: Spek 9-12 A S403 Online

| DIF Summary |  |  | /Other |
|-------------|--|--|--------|
| DIF         |  |  |        |
| AA          |  |  |        |
| BB          |  |  |        |
| CC          |  |  | 0      |

### Table 2.2.4.5.3

DIF Analysis and Summary: Spek 9-12 B/C S403 Online

| DIF Summary | Male/F |  |  | :/Other               |
|-------------|--------|--|--|-----------------------|
| DIF         |        |  |  | Favoring<br>Other (O) |
| AA          |        |  |  | 4                     |
| BB          |        |  |  | 0                     |
| CC          |        |  |  | 0                     |

# 2.3 Raw Score Distribution for Speaking and Writing

Figures and tables in this section provide raw score information for Speaking and Writing. For each grade-level cluster and tier combination, the figure shows the distribution of the raw scores. The horizontal axis shows the raw scores. The vertical axis shows the number of students (count). Each bar shows how many students received each raw score.

Each table in this section summarizes results for a grade-level cluster and tier combination (e.g., Speaking 4–5 Tier A). For each table, results are broken down by grade and also presented for the grade-level cluster as a whole for that tier. The following information is included in each table:

- The number of students in the analyses (the number of students who were not absent, invalid, refused, exempt, or in the wrong grade-level cluster)
- The minimum observed raw score
- The maximum observed raw score
- The mean (average) raw score
- The standard deviation (std. dev.) of the raw scores

# 2.3.1 Listening

The ACCESS Online Listening test is a multistage adaptive assessment. As students do not all take the same set of items in the test, raw score distributions are not presented.

# 2.3.2 Reading

The ACCESS Online Reading test is a multistage adaptive assessment. As students do not all take the same set of items in the test, raw score distributions are not presented.

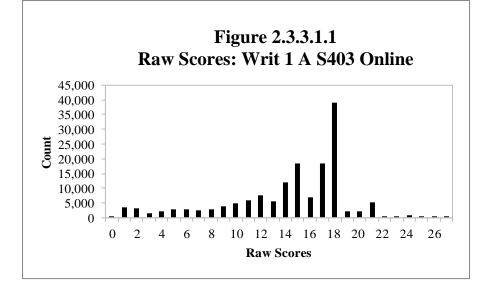
# 2.3.3 Writing

2.3.3.1 Grade 1

Table 2.3.3.1.1

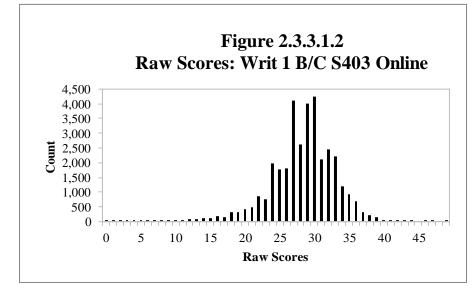
Raw Score Descriptive Statistics: Writ 1 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 1     | 154,550            | 0    | 28   | 14.24 | 4.92      |
| Total | 154,550            | 0    | 28   | 14.24 | 4.92      |



**Table 2.3.3.1.2**Raw Score Descriptive Statistics: Writ 1 B/C S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 1     | 35,093             | 0    | 50   | 28.24 | 4.93      |
| Total | 35,093             | 0    | 50   | 28.24 | 4.93      |

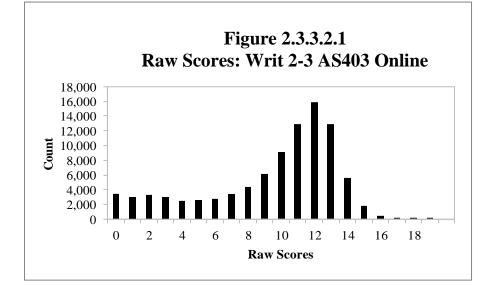


## 2.3.3.2 Grades 2–3

Table 2.3.3.2.1

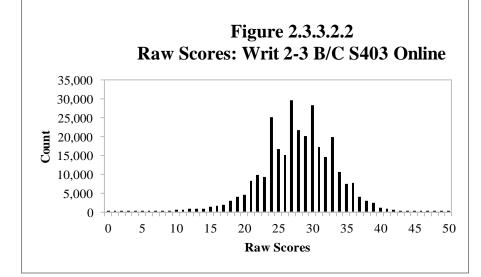
Raw Score Descriptive Statistics: Writ 2-3 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean | Std. Dev. |
|-------|--------------------|------|------|------|-----------|
| 2     | 56,167             | 0    | 18   | 9.18 | 4.02      |
| 3     | 37,447             | 0    | 19   | 9.73 | 4.03      |
| Total | 93,614             | 0    | 19   | 9.40 | 4.03      |



**Table 2.3.3.2.2**Raw Score Descriptive Statistics: Writ 2-3 B/C S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 2     | 138,684            | 0    | 48   | 25.99 | 5.50      |
| 3     | 157,979            | 0    | 51   | 29.43 | 5.16      |
| Total | 296,663            | 0    | 51   | 27.82 | 5.59      |

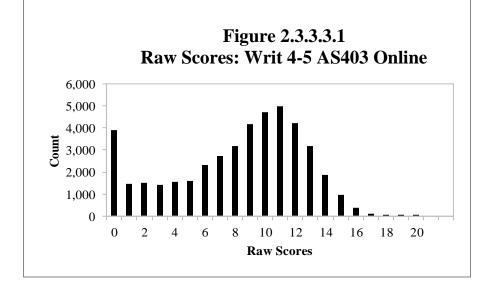


### 2.3.3.3 Grades 4–5

Table 2.3.3.3.1

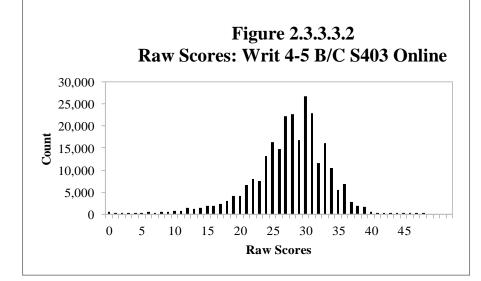
Raw Score Descriptive Statistics: Writ 4-5 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean | Std. Dev. |
|-------|--------------------|------|------|------|-----------|
| 4     | 22,213             | 0    | 19   | 7.65 | 4.30      |
| 5     | 21,996             | 0    | 20   | 8.70 | 4.30      |
| Total | 44,209             | 0    | 20   | 8.17 | 4.33      |



**Table 2.3.3.3.2**Raw Score Descriptive Statistics: Writ 4-5 B/C S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 4     | 146,575            | 0    | 47   | 26.59 | 5.96      |
| 5     | 115,225            | 0    | 48   | 28.82 | 5.37      |
| Total | 261,800            | 0    | 48   | 27.57 | 5.81      |

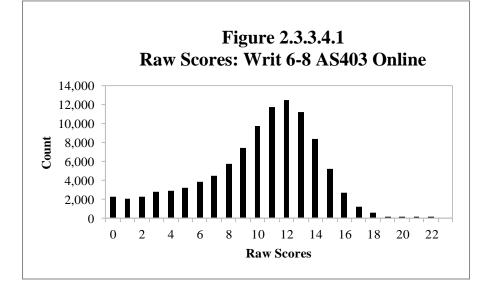


## 2.3.3.4 Grades 6–8

Table 2.3.3.4.1

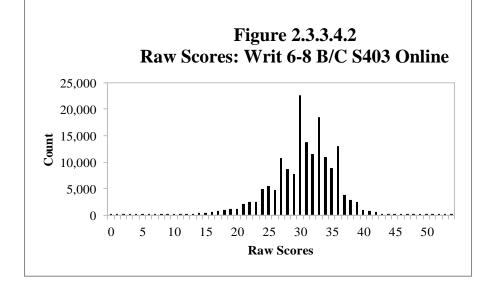
Raw Score Descriptive Statistics: Writ 6-8 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 6     | 31,021             | 0    | 20   | 9.29  | 3.93      |
| 7     | 34,794             | 0    | 22   | 10.12 | 3.99      |
| 8     | 34,272             | 0    | 25   | 10.57 | 4.06      |
| Total | 100,087            | 0    | 25   | 10.02 | 4.03      |



| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 6     | 67,227             | 0    | 52   | 29.05 | 5.25      |
| 7     | 53,575             | 0    | 52   | 30.83 | 5.01      |
| 8     | 47,805             | 0    | 54   | 32.12 | 4.90      |
| Total | 168,607            | 0    | 54   | 30.48 | 5.23      |

Table 2.3.3.4.2Raw Score Descriptive Statistics: Writ 6-8 B/C S403 Online

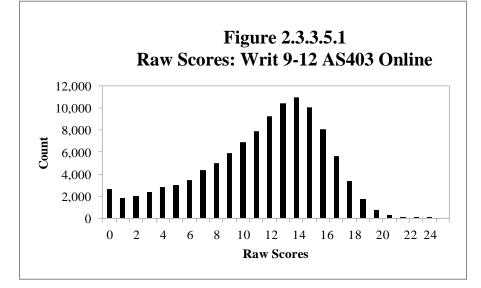


## 2.3.3.5 Grades 9–12

Table 2.3.3.5.1

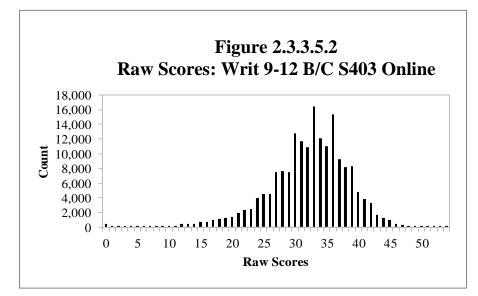
Raw Score Descriptive Statistics: Writ 9-12 A S403 Online

| Grade | No. of   | Min.    | Max. | Mean  | Std. Dev. |
|-------|----------|---------|------|-------|-----------|
| Graue | Students | 101111. |      | Mean  | Stu. Dev. |
| 9     | 41,531   | 0       | 24   | 10.23 | 5.05      |
| 10    | 28,776   | 0       | 24   | 11.54 | 4.38      |
| 11    | 23,202   | 0       | 23   | 12.28 | 4.15      |
| 12    | 15,363   | 0       | 24   | 12.40 | 4.24      |
| Total | 108,872  | 0       | 24   | 11.32 | 4.67      |



|       | No. of   |      |      |       |           |
|-------|----------|------|------|-------|-----------|
| Grade | Students | Min. | Max. | Mean  | Std. Dev. |
| 9     | 53,578   | 0    | 53   | 31.39 | 6.42      |
| 10    | 49,396   | 0    | 54   | 31.91 | 6.53      |
| 11    | 46,009   | 0    | 52   | 32.67 | 6.61      |
| 12    | 35,772   | 0    | 52   | 32.26 | 7.00      |
| Total | 184,755  | 0    | 54   | 32.02 | 6.63      |

Table 2.3.3.5.2Raw Score Descriptive Statistics: Writ 9-12 B/C S403 Online



# 2.3.4 Speaking

2.3.4.1 Grade 1

### Table 2.3.4.1.1

Raw Score Descriptive Statistics: Spek 1 Pre-A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean | Std. Dev. |
|-------|--------------------|------|------|------|-----------|
| 1     | 5,158              | 0    | 6    | 4.40 | 2.15      |
| Total | 5,158              | 0    | 6    | 4.40 | 2.15      |

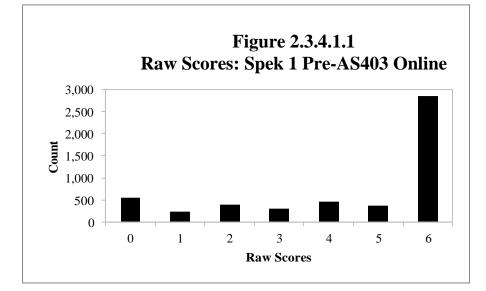


Table 2.3.4.1.2

|  | Raw Score Descri | ptive Statistics: S | Spek 1 A S403 Online |
|--|------------------|---------------------|----------------------|
|--|------------------|---------------------|----------------------|

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 1     | 61,323             | 0    | 18   | 10.56 | 3.46      |
| Total | 61,323             | 0    | 18   | 10.56 | 3.46      |

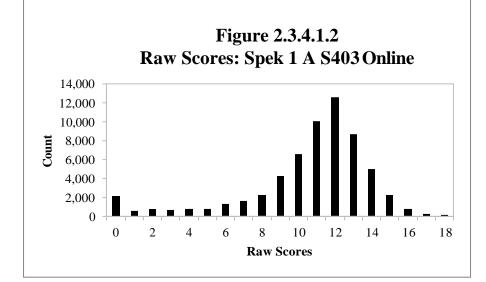
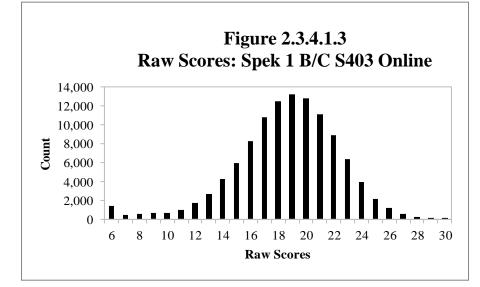


 Table 2.3.4.1.3

 Raw Score Descriptive Statistics: Spek 1 B/C S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 1     | 111,043            | 6    | 30   | 18.59 | 3.75      |
| Total | 111,043            | 6    | 30   | 18.59 | 3.75      |

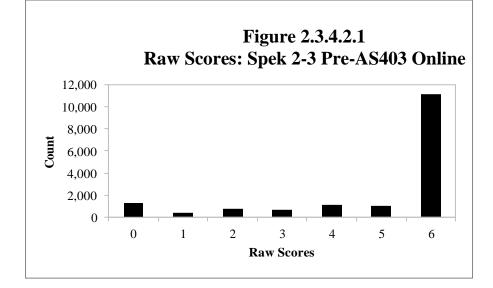


## 2.3.4.2 Grades 2–3

Table 2.3.4.2.1

Raw Score Descriptive Statistics: Spek 2-3 Pre-A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean | Std. Dev. |
|-------|--------------------|------|------|------|-----------|
| 2     | 6,879              | 0    | 6    | 4.89 | 1.93      |
| 3     | 9,480              | 0    | 6    | 4.90 | 1.92      |
| Total | 16,359             | 0    | 6    | 4.90 | 1.92      |



**Table 2.3.4.2.2**Raw Score Descriptive Statistics: Spek 2-3 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 2     | 41,584             | 0    | 18   | 10.94 | 3.01      |
| 3     | 37,429             | 0    | 18   | 11.81 | 2.64      |
| Total | 79,013             | 0    | 18   | 11.35 | 2.87      |

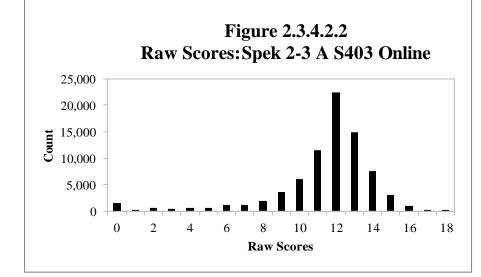
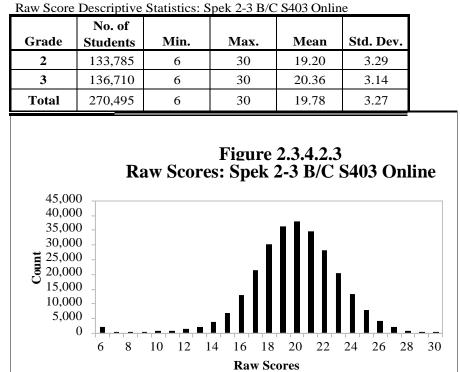


Table 2.3.4.2.3

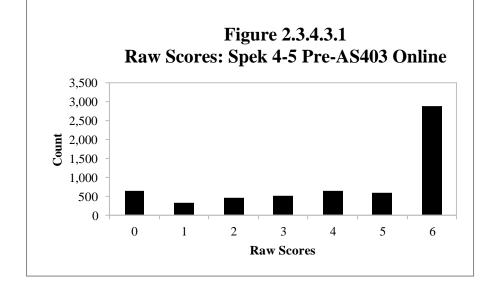


### 2.3.4.3 Grades 4–5

#### Table 2.3.4.3.1

Raw Score Descriptive Statistics: Spek 4-5 Pre-A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean | Std. Dev. |
|-------|--------------------|------|------|------|-----------|
| 4     | 2,390              | 0    | 6    | 4.04 | 2.19      |
| 5     | 3,621              | 0    | 6    | 4.35 | 2.08      |
| Total | 6,011              | 0    | 6    | 4.23 | 2.13      |



**Table 2.3.4.3.2**Raw Score Descriptive Statistics: Spek 4-5 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 4     | 15,726             | 0    | 18   | 10.01 | 3.07      |
| 5     | 12,275             | 0    | 18   | 10.31 | 2.88      |
| Total | 28,001             | 0    | 18   | 10.14 | 2.99      |

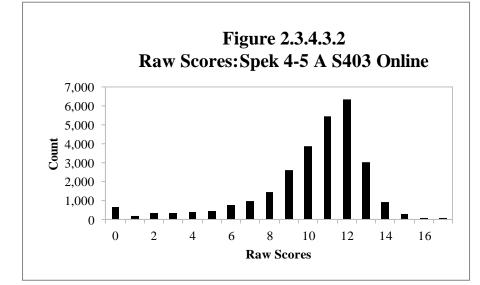
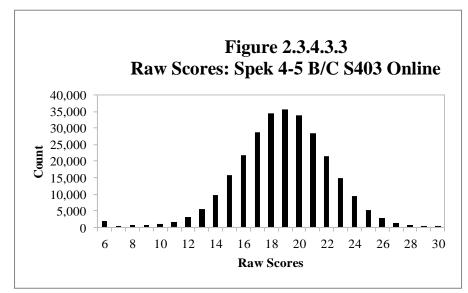


Table 2.3.4.3.3

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 4     | 155,646            | 6    | 30   | 18.64 | 3.35      |
| 5     | 124,000            | 6    | 30   | 18.96 | 3.46      |
| Total | 279,646            | 6    | 30   | 18.78 | 3.40      |

Raw Score Descriptive Statistics: Spek 4-5 B/C S403 Online

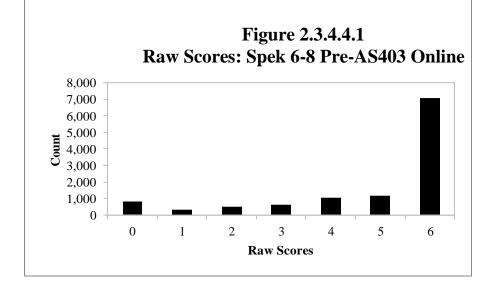


### 2.3.4.4 Grades 6–8

#### Table 2.3.4.4.1

Raw Score Descriptive Statistics: Spek 6-8 Pre-A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean | Std. Dev. |
|-------|--------------------|------|------|------|-----------|
| 6     | 2,811              | 0    | 6    | 4.78 | 1.89      |
| 7     | 3,854              | 0    | 6    | 4.83 | 1.88      |
| 8     | 4,829              | 0    | 6    | 4.86 | 1.83      |
| Total | 11,494             | 0    | 6    | 4.83 | 1.86      |



| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 6     | 17,887             | 0    | 17   | 10.39 | 2.99      |
| 7     | 15,034             | 0    | 18   | 10.13 | 3.08      |
| 8     | 24,908             | 0    | 18   | 10.83 | 3.03      |
| Total | 57,829             | 0    | 18   | 10.51 | 3.05      |

Raw Score Descriptive Statistics: Spek 6-8 A S403 Online

Table 2.3.4.4.2

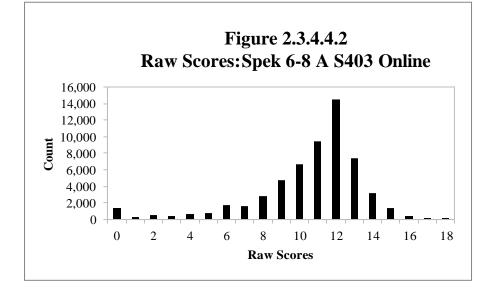
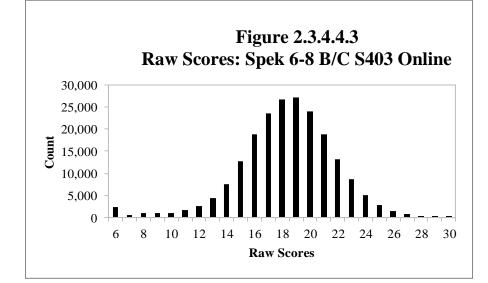


Table 2.3.4.4.3Raw Score Descriptive Statistics: Spek 6-8 B/C S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean  | Std. Dev. |
|-------|--------------------|------|------|-------|-----------|
| 6     | 80,038             | 6    | 30   | 17.94 | 3.29      |
| 7     | 71,216             | 6    | 30   | 18.19 | 3.52      |
| 8     | 54,262             | 6    | 30   | 18.99 | 3.56      |
| Total | 205,516            | 6    | 30   | 18.30 | 3.47      |

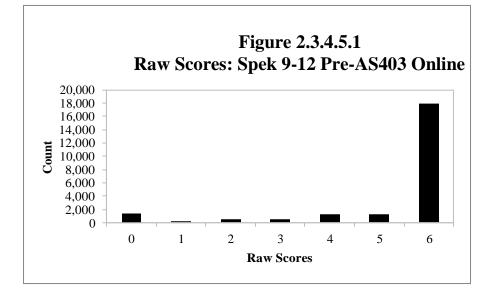


## 2.3.4.5 Grades 9–12

#### Table 2.3.4.5.1

Raw Score Descriptive Statistics: Spek 9-12 Pre-A S403 Online

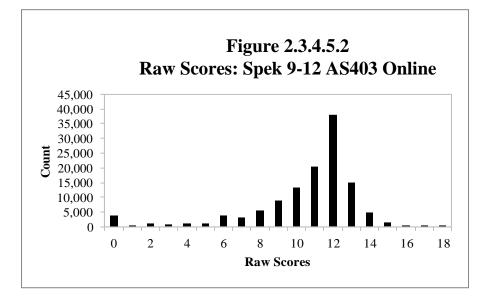
| Grade | No. of<br>Students | Min. | Max. | Mean | Std. Dev. |
|-------|--------------------|------|------|------|-----------|
| 9     | 5,440              | 0    | 6    | 4.92 | 1.86      |
| 10    | 6,455              | 0    | 6    | 5.31 | 1.58      |
| 11    | 6,209              | 0    | 6    | 5.44 | 1.47      |
| 12    | 4,998              | 0    | 6    | 5.38 | 1.58      |
| Total | 23,102             | 0    | 6    | 5.27 | 1.63      |



|       | No. of   |      |      |       |           |
|-------|----------|------|------|-------|-----------|
| Grade | Students | Min. | Max. | Mean  | Std. Dev. |
| 9     | 54,492   | 0    | 18   | 10.18 | 3.11      |
| 10    | 31,840   | 0    | 17   | 10.53 | 2.91      |
| 11    | 14,041   | 0    | 17   | 10.26 | 3.04      |
| 12    | 23,318   | 0    | 18   | 11.03 | 3.05      |
| Total | 123,691  | 0    | 18   | 10.44 | 3.06      |

Raw Score Descriptive Statistics: Spek 9-12 A S403 Online

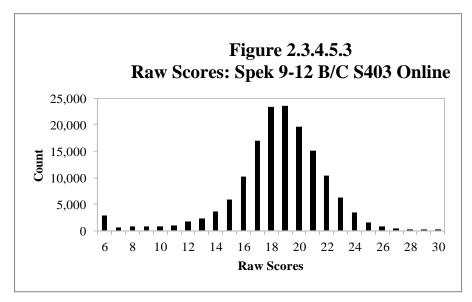
Table 2.3.4.5.2



|       | No. of   |      |      |       |           |
|-------|----------|------|------|-------|-----------|
| Grade | Students | Min. | Max. | Mean  | Std. Dev. |
| 9     | 37,139   | 6    | 30   | 18.41 | 3.22      |
| 10    | 41,507   | 6    | 30   | 18.38 | 3.43      |
| 11    | 49,948   | 6    | 30   | 18.17 | 3.69      |
| 12    | 23,922   | 6    | 30   | 18.84 | 3.69      |
| Total | 152,516  | 6    | 30   | 18.39 | 3.52      |

Raw Score Descriptive Statistics: Spek 9-12 B/C S403 Online

Table 2.3.4.5.3



# 2.4 Scale Score Distribution

Figures and tables in this section relate to the ACCESS for ELLs scale scores on each test form. For each test form, raw scores were converted to vertically equated scale scores. Scale score distribution is presented by grade-level cluster. For Writing and Speaking, it is also presented by grade-level cluster and tier.

For each test form, the figure shows the distribution of the scale scores. Scale scores are plotted on the horizontal axis.

For Listening and Reading, scale scores are grouped into units of five scale score points (e.g., 100-104, 105-109, 110-114, etc.).

For Speaking and Writing, each individual scale score point is plotted for each test form. For figures that summarize both test forms in a cluster, scale scores are grouped into units of five scale score points.

The number of students with scale scores falling into each range is plotted on the vertical axis.

The tables in this section show, by grade and by total for the grade-level cluster:

- The number of students in the analyses (count)
- The minimum observed scale score
- The maximum observed scale score
- The mean (average) scale score
- The standard deviation (std. dev.) of the scale scores

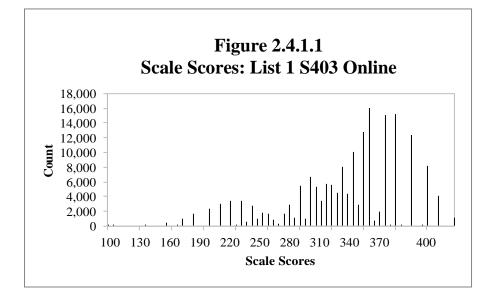
# 2.4.1 Listening

2.4.1.1 Grade 1

## Table 2.4.1.1

Scale Score Descriptive Statistics: List 1 S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 181,107            | 104  | 428  | 325.28 | 54.33     |
| Total | 181,107            | 104  | 428  | 325.28 | 54.33     |

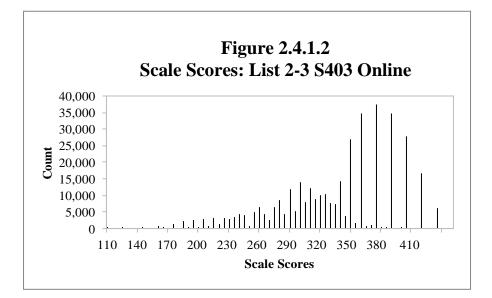


### 2.4.1.2 Grades 2–3

Table 2.4.1.2

Scale Score Descriptive Statistics: List 2-3 S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 185,843            | 112  | 436  | 325.54 | 56.06     |
| 3     | 186,821            | 112  | 436  | 348.97 | 55.65     |
| Total | 372,664            | 112  | 436  | 337.28 | 57.07     |

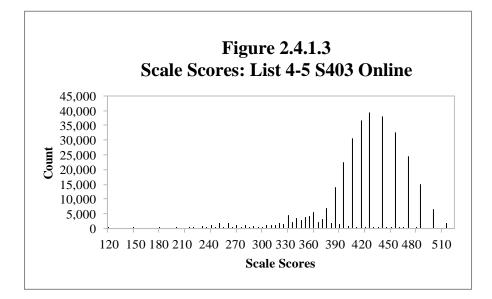


### 2.4.1.3 Grades 4–5

#### Table 2.4.1.3

Scale Score Descriptive Statistics: List 4-5 S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 178,833            | 120  | 519  | 411.73 | 48.57     |
| 5     | 144,131            | 120  | 519  | 420.77 | 51.83     |
| Total | 322,964            | 120  | 519  | 415.77 | 50.25     |

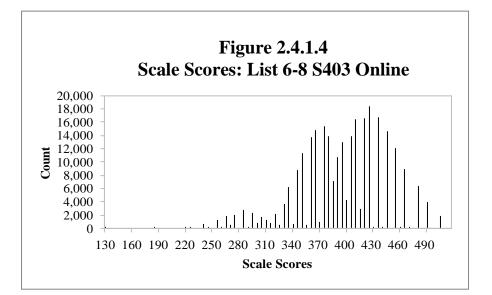


### 2.4.1.4 Grades 6-8

Table 2.4.1.4

Scale Score Descriptive Statistics: List 6-8 S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 6     | 102,133            | 132  | 522  | 392.60 | 43.03     |
| 7     | 90,916             | 132  | 522  | 396.97 | 48.26     |
| 8     | 84,738             | 132  | 522  | 402.27 | 53.05     |
| Total | 277,787            | 132  | 522  | 396.98 | 48.14     |

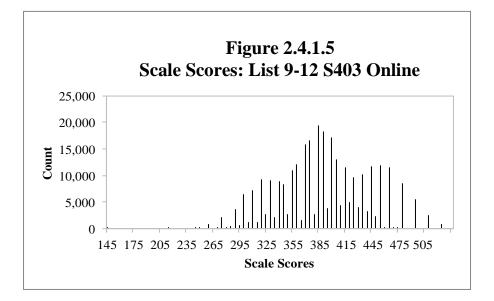


# 2.4.1.5 Grades 9–12

#### Table 2.4.1.5

Scale Score Descriptive Statistics: List 9-12 S403 Online

|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 9     | 97,431   | 148  | 527  | 387.25 | 48.91     |
| 10    | 80,344   | 148  | 527  | 391.72 | 51.46     |
| 11    | 71,529   | 215  | 527  | 396.59 | 52.38     |
| 12    | 52,461   | 215  | 527  | 396.51 | 51.83     |
| Total | 301,765  | 148  | 527  | 392.26 | 51.09     |



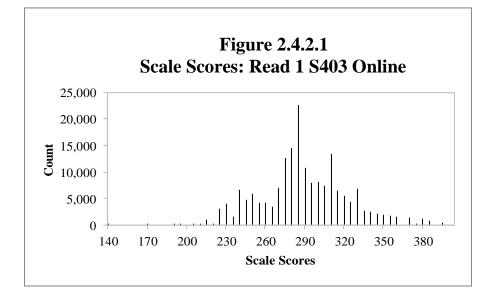
# 2.4.2 Reading

2.4.2.1 Grade 1

### Table 2.4.2.1

Scale Score Descriptive Statistics: Read 1 S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 183,421            | 141  | 407  | 291.83 | 33.39     |
| Total | 183,421            | 141  | 407  | 291.83 | 33.39     |

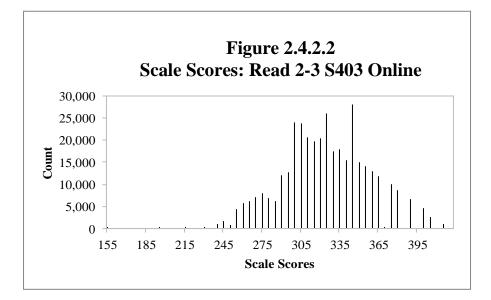


# 2.4.2.2 Grades 2–3

Table 2.4.2.2

Scale Score Descriptive Statistics: Read 2-3 S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 186,415            | 198  | 418  | 318.59 | 30.36     |
| 3     | 186,956            | 158  | 418  | 333.70 | 34.71     |
| Total | 373,371            | 158  | 418  | 326.16 | 33.48     |

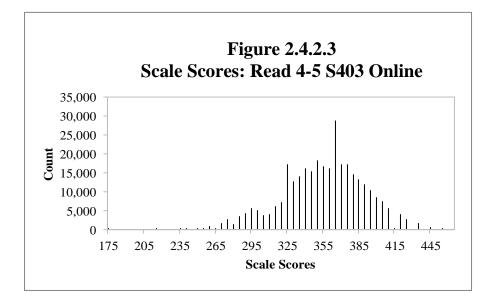


# 2.4.2.3 Grades 4–5

Table 2.4.2.3

Scale Score Descriptive Statistics: Read 4-5 S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 176,492            | 175  | 456  | 354.98 | 32.24     |
| 5     | 142,149            | 217  | 456  | 359.86 | 35.18     |
| Total | 318,641            | 175  | 456  | 357.15 | 33.67     |

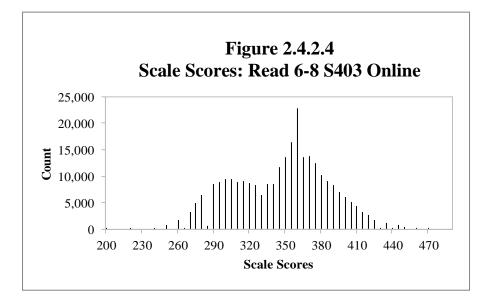


# 2.4.2.4 Grades 6-8

#### **Table 2.4.2.4**

Scale Score Descriptive Statistics: Read 6-8 S403 Online

|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 6     | 102,022  | 200  | 472  | 343.10 | 36.19     |
| 7     | 91,277   | 200  | 472  | 348.97 | 39.29     |
| 8     | 84,658   | 200  | 472  | 355.45 | 41.24     |
| Total | 277,957  | 200  | 472  | 348.79 | 39.13     |



# 2.4.2.5 Grades 9–12

297,819

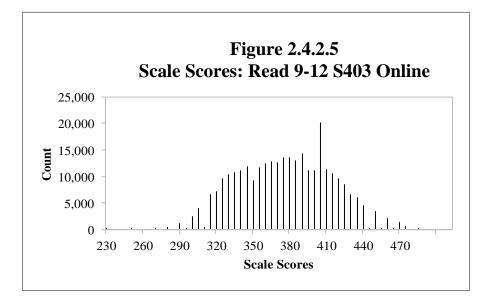
#### Table 2.4.2.5

Total

| Scale Score | e Descriptiv       | e Statistics: | Read 9-12 S | 403 Online |          |
|-------------|--------------------|---------------|-------------|------------|----------|
| Grade       | No. of<br>Students | Min.          | Max.        | Mean       | Std. Dev |
| 9           | 96,429             | 233           | 488         | 370.19     | 37.45    |
| 10          | 79,330             | 250           | 488         | 378.29     | 37.25    |
| 11          | 70,173             | 250           | 488         | 384.67     | 37.58    |
| 12          | 51,887             | 233           | 488         | 385.38     | 36.87    |

Scale Score Descriptive Statistics: Read 9-12 S403 Online

233



488

378.41

37.86

# 2.4.3 Writing

2.4.3.1 Grade 1

Table 2.4.3.1.1

Scale Score Descriptive Statistics: Writ 1 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 154,550            | 111  | 342  | 249.03 | 30.15     |
| Total | 154,550            | 111  | 342  | 249.03 | 30.15     |

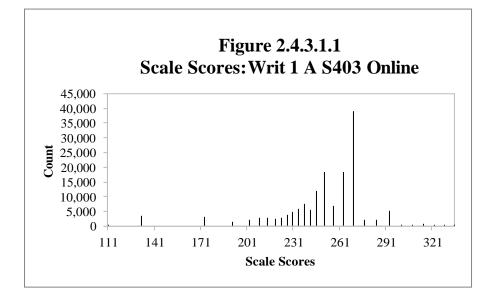
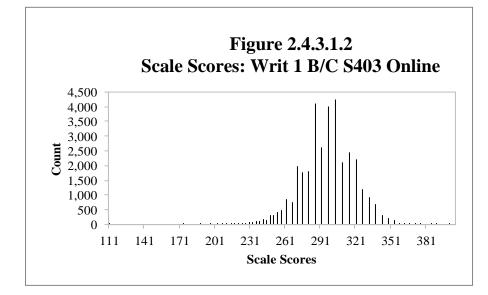


Table 2.4.3.1.2Scale Score Descriptive Statistics: Writ 1 B/C S403 Online

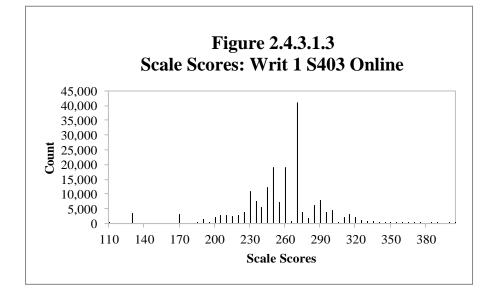
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 35,093             | 111  | 408  | 295.36 | 24.82     |
| Total | 35,093             | 111  | 408  | 295.36 | 24.82     |



#### Table 2.4.3.1.3

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 189,643            | 111  | 408  | 257.60 | 34.33     |
| Total | 189,643            | 111  | 408  | 257.60 | 34.33     |

Scale Score Descriptive Statistics: Writ 1 S403 Online



## 2.4.3.2 Grades 2–3

Table 2.4.3.2.1

Scale Score Descriptive Statistics: Writ 2-3 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 56,167             | 133  | 348  | 258.22 | 35.71     |
| 3     | 37,447             | 133  | 358  | 262.96 | 36.10     |
| Total | 93,614             | 133  | 358  | 260.11 | 35.94     |

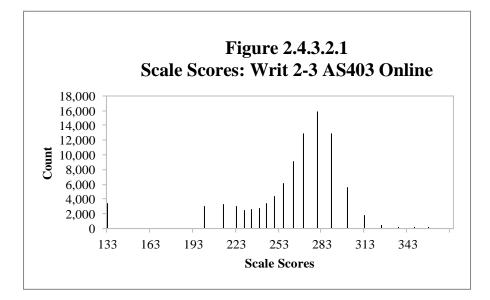
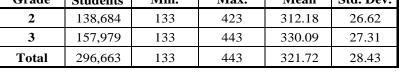
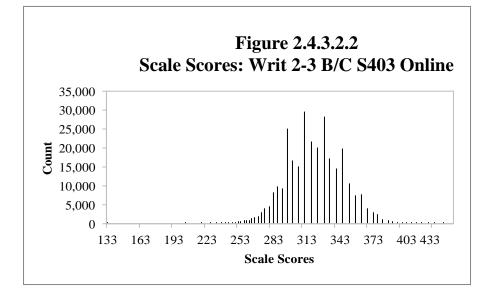


Table 2.4.3.2.2 Scale Score Descriptive Statistics: Writ 2-3 B/C S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 138,684            | 133  | 423  | 312.18 | 26.62     |
| 3     | 157,979            | 133  | 443  | 330.09 | 27.31     |
| Total | 296,663            | 133  | 443  | 321.72 | 28.43     |

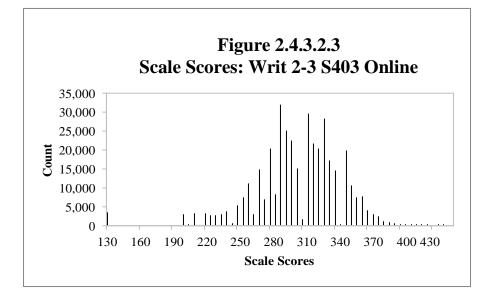




| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 194,851            | 133  | 423  | 296.62 | 38.33     |
| 3     | 195,426            | 133  | 443  | 317.23 | 39.38     |
| Total | 390,277            | 133  | 443  | 306.94 | 40.20     |

Scale Score Descriptive Statistics: Writ 2-3 S403 Online

Table 2.4.3.2.3

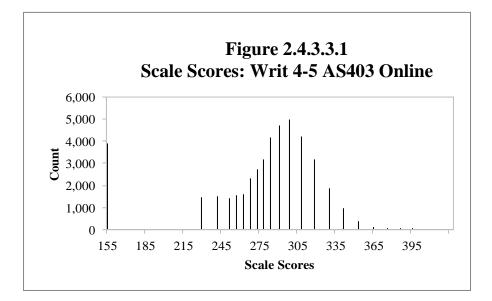


### 2.4.3.3 Grades 4–5

Table 2.4.3.3.1

Scale Score Descriptive Statistics: Writ 4-5 A S403 Online

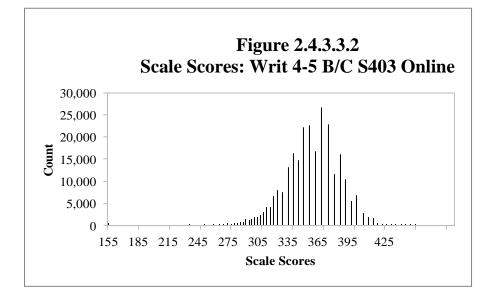
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 22,213             | 155  | 386  | 270.99 | 46.08     |
| 5     | 21,996             | 155  | 396  | 280.70 | 44.29     |
| Total | 44,209             | 155  | 396  | 275.82 | 45.46     |



| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 146,575            | 155  | 449  | 346.11 | 29.23     |
| 5     | 115,225            | 155  | 454  | 357.53 | 27.63     |
| Total | 261,800            | 155  | 454  | 351.14 | 29.10     |

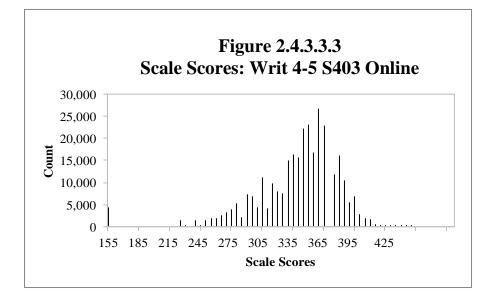
Scale Score Descriptive Statistics: Writ 4-5 B/C S403 Online

Table 2.4.3.3.2



| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 168,788            | 155  | 449  | 336.22 | 40.82     |
| 5     | 137,221            | 155  | 454  | 345.22 | 41.83     |
| Total | 306,009            | 155  | 454  | 340.26 | 41.52     |

Table 2.4.3.3.3Scale Score Descriptive Statistics: Writ 4-5 S403 Online

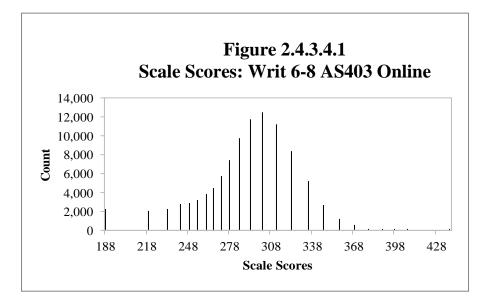


## 2.4.3.4 Grades 6–8

Table 2.4.3.4.1

Scale Score Descriptive Statistics: Writ 6-8 A S403 Online

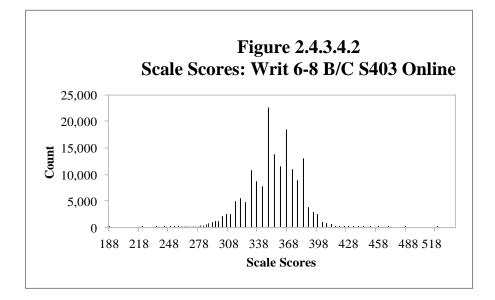
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 6     | 31,021             | 188  | 389  | 282.73 | 31.83     |
| 7     | 34,794             | 188  | 407  | 290.00 | 32.99     |
| 8     | 34,272             | 188  | 438  | 294.14 | 34.19     |
| Total | 100,087            | 188  | 438  | 289.16 | 33.38     |



| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 6     | 67,227             | 188  | 470  | 344.99 | 27.02     |
| 7     | 53,575             | 188  | 470  | 354.62 | 26.58     |
| 8     | 47,805             | 188  | 520  | 361.70 | 26.17     |
| Total | 168,607            | 188  | 520  | 352.79 | 27.52     |

Scale Score Descriptive Statistics: Writ 6-8 B/C S403 Online

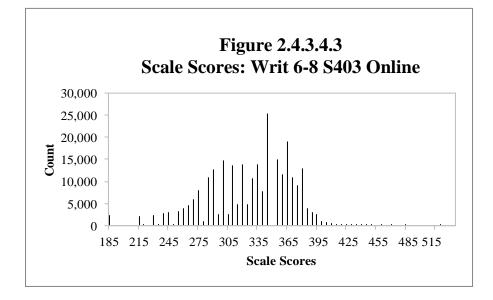
Table 2.4.3.4.2



| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 6     | 98,248             | 188  | 470  | 325.33 | 40.71     |
| 7     | 88,369             | 188  | 470  | 329.18 | 43.05     |
| 8     | 82,077             | 188  | 520  | 333.49 | 44.69     |
| Total | 268,694            | 188  | 520  | 329.09 | 42.86     |

Scale Score Descriptive Statistics: Writ 6-8 S403 Online

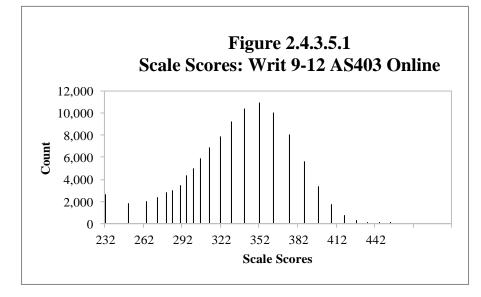
Table 2.4.3.4.3



#### 2.4.3.5 Grades 9–12

Table 2.4.3.5.1

No. of Grade Students Min. Max. Mean Std. Dev. 9 41,531 232 454 322.10 42.35 10 28,776 232 454 332.51 38.08 11 23,202 232 445 338.77 37.16 12 15,363 232 454 339.84 38.12 Total 108,872 232 454 40.27 330.91

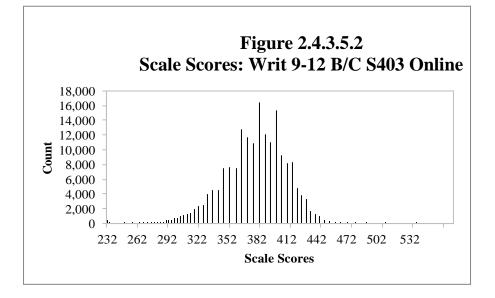


Scale Score Descriptive Statistics: Writ 9-12 A S403 Online

|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 9     | 53,578   | 232  | 504  | 372.24 | 32.62     |
| 10    | 49,396   | 232  | 535  | 375.04 | 33.19     |
| 11    | 46,009   | 232  | 486  | 379.14 | 33.52     |
| 12    | 35,772   | 232  | 486  | 377.16 | 35.08     |
| Total | 184,755  | 232  | 535  | 375.66 | 33.59     |

Scale Score Descriptive Statistics: Writ 9-12 B/C S403 Online

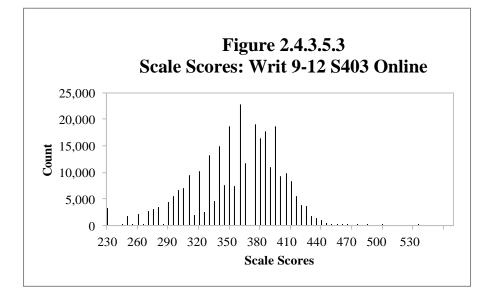
Table 2.4.3.5.2



|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 9     | 95,109   | 232  | 504  | 350.34 | 44.73     |
| 10    | 78,172   | 232  | 535  | 359.39 | 40.63     |
| 11    | 69,211   | 232  | 486  | 365.61 | 39.66     |
| 12    | 51,135   | 232  | 486  | 365.95 | 39.88     |
| Total | 293,627  | 232  | 535  | 359.07 | 42.17     |

Scale Score Descriptive Statistics: Writ 9-12 S403 Online

Table 2.4.3.5.3



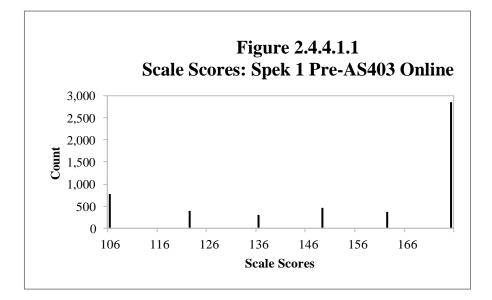
# 2.4.4 Speaking

2.4.4.1 Grade 1

#### Table 2.4.4.1.1

Scale Score Descriptive Statistics: Spek 1 Pre-A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 5,158              | 106  | 175  | 154.96 | 26.41     |
| Total | 5,158              | 106  | 175  | 154.96 | 26.41     |



**Table 2.4.4.1.2**Scale Score Descriptive Statistics: Spek 1 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 61,323             | 106  | 384  | 232.96 | 54.42     |
| Total | 61,323             | 106  | 384  | 232.96 | 54.42     |

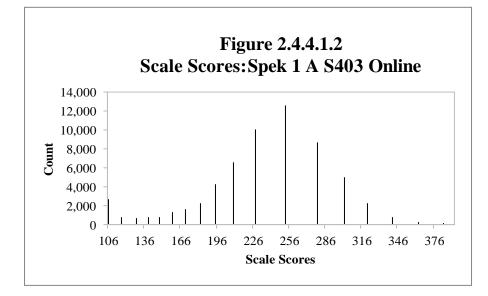


Table 2.4.4.1.3Scale Score Descriptive Statistics: Spek 1 B/C S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 111,043            | 106  | 403  | 266.18 | 42.88     |
| Total | 111,043            | 106  | 403  | 266.18 | 42.88     |

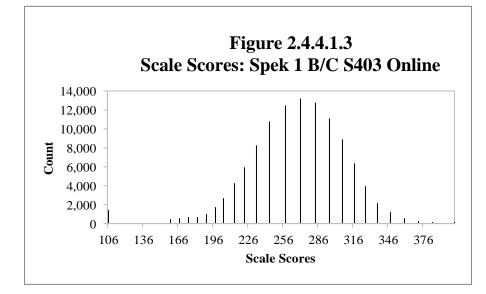
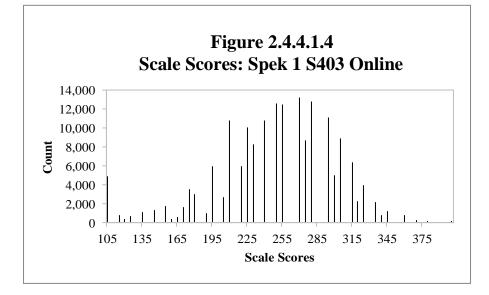


Table 2.4.4.1.4

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 177,524            | 106  | 403  | 251.47 | 52.13     |
| Total | 177,524            | 106  | 403  | 251.47 | 52.13     |

Scale Score Descriptive Statistics: Spek 1 S403 Online

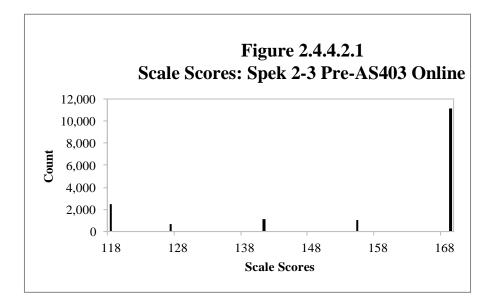


## 2.4.4.2 Grades 2–3

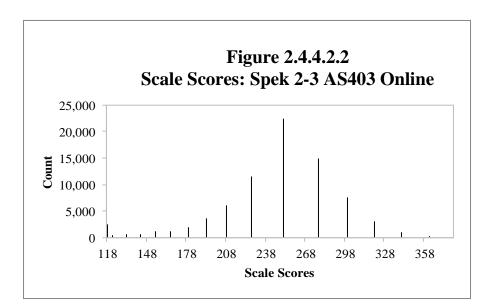
Table 2.4.4.2.1

Scale Score Descriptive Statistics: Spek 2-3 Pre-A S403 Online

|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 2     | 6,879    | 118  | 169  | 156.83 | 19.61     |
| 3     | 9,480    | 118  | 169  | 156.92 | 19.43     |
| Total | 16,359   | 118  | 169  | 156.88 | 19.51     |



No. of Grade Students Min. Max. Mean Std. Dev. 2 41,584 236.86 47.88 118 383 37,429 253.09 45.41 3 118 383 Total 79,013 118 383 244.55 47.42



Scale Score Descriptive Statistics: Spek 2-3 A S403 Online

Table 2.4.4.2.2

Table 2.4.4.2.3

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 133,785            | 118  | 425  | 272.04 | 37.40     |
| 3     | 136,710            | 118  | 425  | 285.33 | 35.89     |
| Total | 270,495            | 118  | 425  | 278.76 | 37.24     |

Scale Score Descriptive Statistics: Spek 2-3 B/C S403 Online

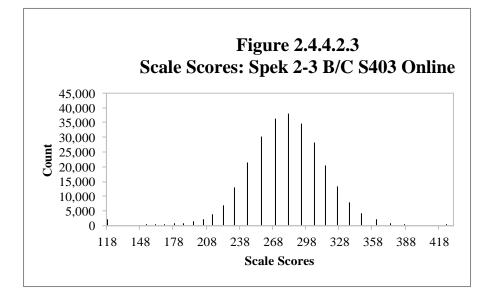
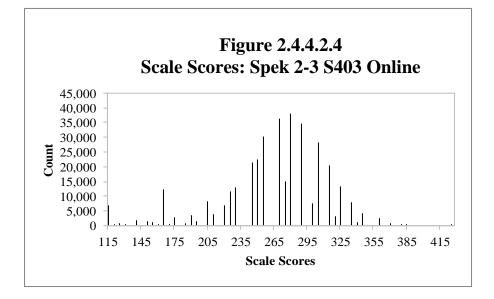


Table 2.4.4.2.4

|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 2     | 182,248  | 118  | 425  | 259.67 | 46.84     |
| 3     | 183,619  | 118  | 425  | 272.13 | 47.83     |
| Total | 365,867  | 118  | 425  | 265.92 | 47.75     |

Scale Score Descriptive Statistics: Spek 2-3 S403 Online

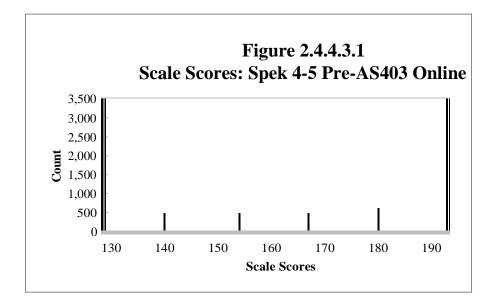


## 2.4.4.3 Grades 4–5

#### Table 2.4.4.3.1

Scale Score Descriptive Statistics: Spek 4-5 Pre-A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 2,390              | 130  | 194  | 170.21 | 25.42     |
| 5     | 3,621              | 130  | 194  | 173.94 | 24.44     |
| Total | 6,011              | 130  | 194  | 172.46 | 24.90     |



**Table 2.4.4.3.2**Scale Score Descriptive Statistics: Spek 4-5 A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 15,726             | 130  | 427  | 259.36 | 51.03     |
| 5     | 12,275             | 130  | 427  | 264.58 | 49.26     |
| Total | 28,001             | 130  | 427  | 261.65 | 50.33     |

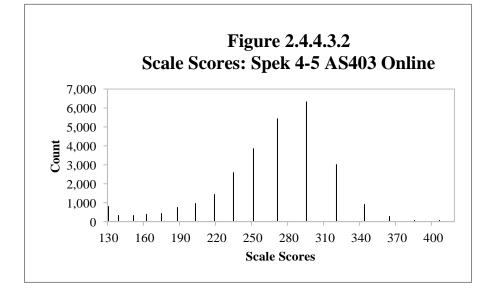
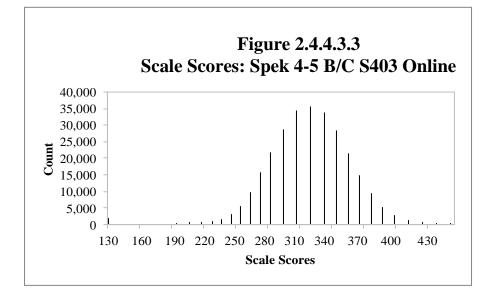


Table 2.4.4.3.3

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 155,646            | 130  | 450  | 314.81 | 39.51     |
| 5     | 124,000            | 130  | 450  | 318.43 | 40.81     |
| Total | 279,646            | 130  | 450  | 316.42 | 40.13     |

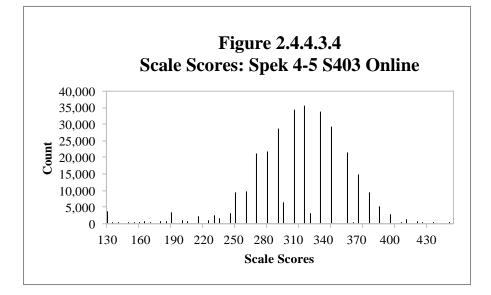
Scale Score Descriptive Statistics: Spek 4-5 B/C S403 Online



| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 173,762            | 130  | 450  | 307.80 | 46.47     |
| 5     | 139,896            | 130  | 450  | 309.97 | 49.27     |
| Total | 313,658            | 130  | 450  | 308.77 | 47.75     |

Scale Score Descriptive Statistics: Spek 4-5 S403 Online

Table 2.4.4.3.4

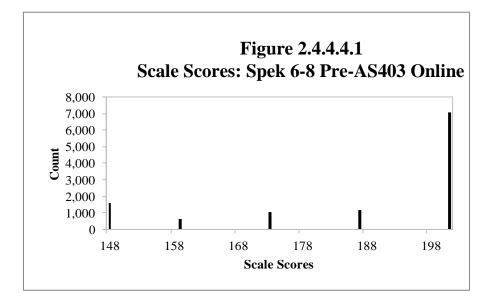


## 2.4.4.4 Grades 6–8

#### Table 2.4.4.1

Scale Score Descriptive Statistics: Spek 6-8 Pre-A S403 Online

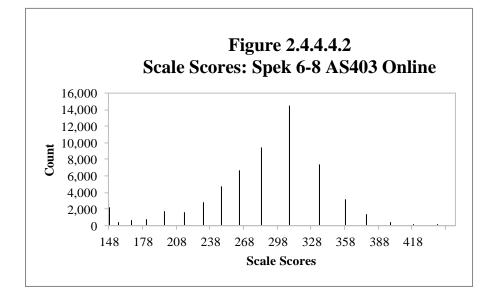
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 6     | 2,811              | 148  | 201  | 186.79 | 20.25     |
| 7     | 3,854              | 148  | 201  | 187.49 | 19.86     |
| 8     | 4,829              | 148  | 201  | 187.65 | 19.53     |
| Total | 11,494             | 148  | 201  | 187.39 | 19.82     |



| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 6     | 17,887             | 148  | 419  | 279.70 | 52.06     |
| 7     | 15,034             | 148  | 440  | 274.90 | 52.86     |
| 8     | 24,908             | 148  | 440  | 289.11 | 53.67     |
| Total | 57,829             | 148  | 440  | 282.50 | 53.31     |

Scale Score Descriptive Statistics: Spek 6-8 A S403 Online

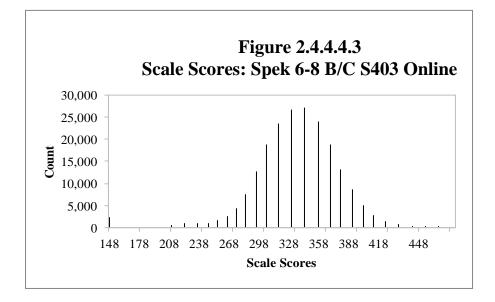
Table 2.4.4.4.2



| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 6     | 80,038             | 148  | 467  | 324.30 | 39.23     |
| 7     | 71,216             | 148  | 467  | 327.22 | 42.07     |
| 8     | 54,262             | 148  | 467  | 336.39 | 42.71     |
| Total | 205,516            | 148  | 467  | 328.51 | 41.45     |

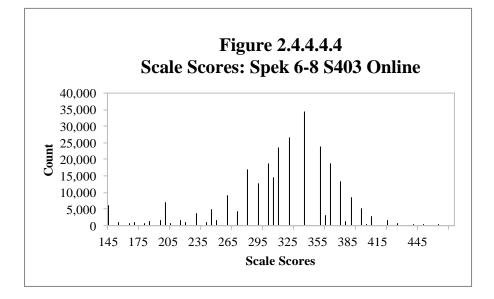
Scale Score Descriptive Statistics: Spek 6-8 B/C S403 Online

Table 2.4.4.3



| Scale Score | Scale Score Descriptive Statistics: Spek 6-8 S403 Online |      |      |        |           |  |  |  |  |
|-------------|--|------|------|--------|-----------|--|--|--|--|
| Grade       | No. of<br>Students                                       | Min. | Max. | Mean   | Std. Dev. |  |  |  |  |
| 6           | 100,736  | 148  | 467  | 312.55 | 49.58     |  |  |  |  |
| 7           | 90,104   | 148  | 467  | 312.52 | 54.39     |  |  |  |  |
| 8           | 83,999   | 148  | 467  | 313.82 | 58.99     |  |  |  |  |
| Total       | 274,839  | 148  | 467  | 312.92 | 54.17     |  |  |  |  |

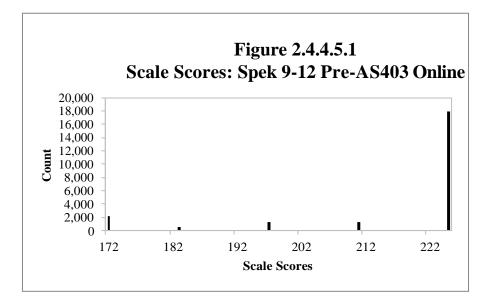
Scale Score Descriptive Statistics: Spek 6-8 S403 Online



### 2.4.4.5 Grades 9–12

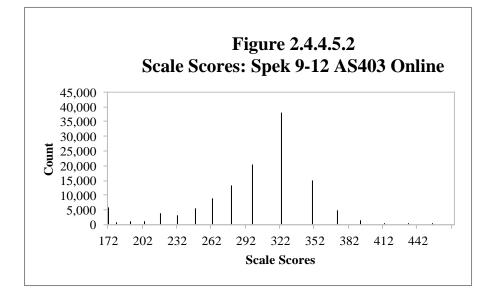
Scale Score Descriptive Statistics: Spek 9-12 Pre-A S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 9     | 5,440              | 172  | 225  | 212.74 | 19.46     |
| 10    | 6,455              | 172  | 225  | 217.21 | 16.46     |
| 11    | 6,209              | 172  | 225  | 218.79 | 15.17     |
| 12    | 4,998              | 172  | 225  | 218.29 | 15.90     |
| Total | 23,102             | 172  | 225  | 216.82 | 16.93     |



| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 9     | 54,492             | 172  | 455  | 292.14 | 49.74     |
| 10    | 31,840             | 172  | 434  | 298.11 | 47.14     |
| 11    | 14,041             | 172  | 434  | 293.24 | 47.84     |
| 12    | 23,318             | 172  | 455  | 309.39 | 49.71     |
| Total | 123,691            | 172  | 455  | 297.05 | 49.28     |

Scale Score Descriptive Statistics: Spek 9-12 A S403 Online

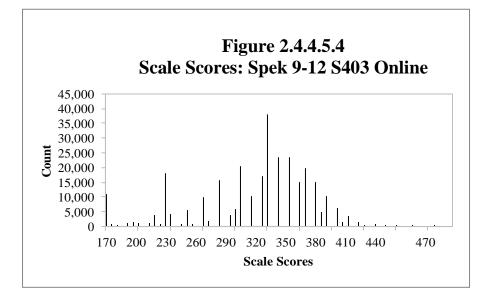


| Scale Score | Scale Score Descriptive Statistics: Spek 9-12 B/C S403 Online |      |      |        |           |  |  |  |  |
|-------------|---|------|------|--------|-----------|--|--|--|--|
| Grade       | No. of<br>Students  | Min. | Max. | Mean   | Std. Dev. |  |  |  |  |
| 9           | 37,139  | 172  | 476  | 335.64 | 38.20     |  |  |  |  |
| 10          | 41,507  | 172  | 476  | 335.30 | 40.57     |  |  |  |  |
| 11          | 49,948  | 172  | 476  | 332.75 | 43.65     |  |  |  |  |
| 12          | 23,922  | 172  | 476  | 340.76 | 43.80     |  |  |  |  |
| Total       | 152,516   | 172  | 476  | 335.40 | 41.65     |  |  |  |  |

Figure 2.4.4.5.3 Scale Scores: Spek 9-12 B/C S403 Online 25,000 20,000 **b** 15,000 10,000 5,000 0 172 202 232 262 292 322 352 382 412 442 472 **Scale Scores** 

|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 9     | 97,071   | 172  | 476  | 304.33 | 53.82     |
| 10    | 79,802   | 172  | 476  | 310.91 | 53.38     |
| 11    | 70,198   | 172  | 476  | 314.77 | 54.51     |
| 12    | 52,238   | 172  | 476  | 315.04 | 56.73     |
| Total | 299,309  | 172  | 476  | 310.40 | 54.57     |

Scale Score Descriptive Statistics: Spek 9-12 S403 Online



## 2.5 Proficiency Level Distribution

The figures and tables in this section provide information on the proficiency level distribution of the students who took the test form based on their performance. Proficiency level distribution is presented by grade-level cluster. For Writing and Speaking, it is also presented by grade-level cluster and tier. Note that the Speaking Pre-A tier is intended for students at the beginning stages of English language proficiency, and students assigned to this tier are not expected to show proficiency above PL 1.

In the tables presented in this section, each row shows, by grade and by total for the grade-level cluster:

- The WIDA proficiency level designation (1–6)
- The number of students (count) whose performance on the test form placed them into that proficiency level in the domain being tested
- The percentage of students, out of the total number of students taking the form, who were placed into that proficiency level in the domain being tested

In the figure, the horizontal axis shows the six WIDA proficiency levels. The vertical axis shows the percentage of students. Each bar shows the percentage of students who were placed into each proficiency level in the domain being tested on this test form.

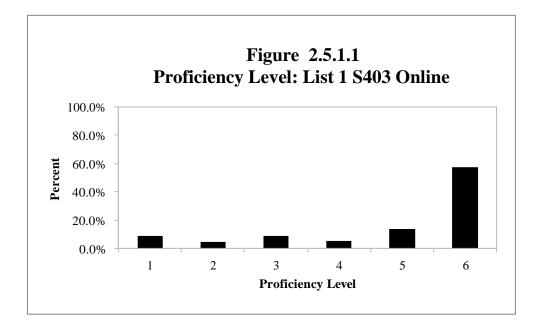
## 2.5.1 Listening

2.5.1.1 Grade 1

### Table 2.5.1.1

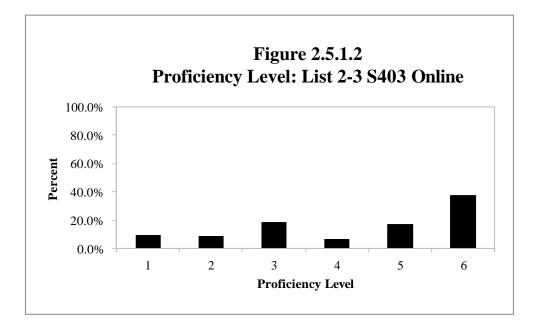
Proficiency Level Distribution: List 1 S403 Online

|       | Gra           | de 1    | Total   |         |  |
|-------|---------------|---------|---------|---------|--|
| Level | Count Percent |         | Count   | Percent |  |
| 1     | 16,004        | 8.84%   | 16,004  | 8.84%   |  |
| 2     | 8,117         | 4.48%   | 8,117   | 4.48%   |  |
| 3     | 16,930        | 9.35%   | 16,930  | 9.35%   |  |
| 4     | 10,511        | 5.80%   | 10,511  | 5.80%   |  |
| 5     | 25,558        | 14.11%  | 25,558  | 14.11%  |  |
| 6     | 103,987       | 57.42%  | 103,987 | 57.42%  |  |
| Total | 181,107       | 100.00% | 181,107 | 100.00% |  |



## 2.5.1.2 Grades 2–3

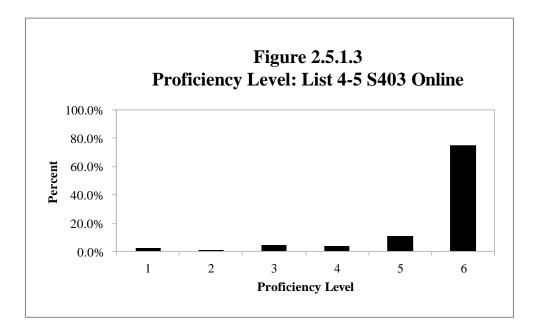
|       | Grade 2 |         | Gra     | de 3    | Total   |         |
|-------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 19,280  | 10.37%  | 16,257  | 8.70%   | 35,537  | 9.54%   |
| 2     | 17,281  | 9.30%   | 16,541  | 8.85%   | 33,822  | 9.08%   |
| 3     | 39,292  | 21.14%  | 30,252  | 16.19%  | 69,544  | 18.66%  |
| 4     | 14,007  | 7.54%   | 11,877  | 6.36%   | 25,884  | 6.95%   |
| 5     | 34,505  | 18.57%  | 31,826  | 17.04%  | 66,331  | 17.80%  |
| 6     | 61,478  | 33.08%  | 80,068  | 42.86%  | 141,546 | 37.98%  |
| Total | 185,843 | 100.00% | 186,821 | 100.00% | 372,664 | 100.00% |



## 2.5.1.3 Grades 4–5

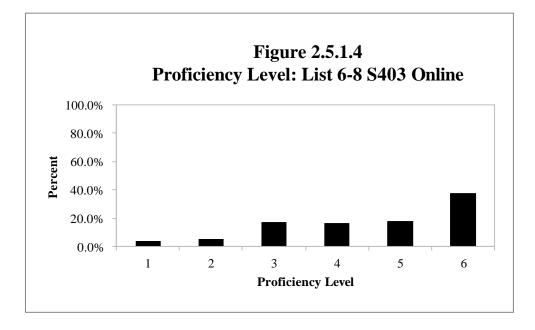
| Proficiency | Level Distribution: | List 4-5 S403 Online |
|-------------|---------------------|----------------------|
|-------------|---------------------|----------------------|

|       | Grade 4 |         | Gra     | de 5    | Total   |         |  |
|-------|---------|---------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 4,149   | 2.32%   | 4,658   | 3.23%   | 8,807   | 2.73%   |  |
| 2     | 2,530   | 1.41%   | 2,776   | 1.93%   | 5,306   | 1.64%   |  |
| 3     | 9,527   | 5.33%   | 7,066   | 4.90%   | 16,593  | 5.14%   |  |
| 4     | 7,668   | 4.29%   | 6,242   | 4.33%   | 13,910  | 4.31%   |  |
| 5     | 20,003  | 11.19%  | 16,473  | 11.43%  | 36,476  | 11.29%  |  |
| 6     | 134,956 | 75.46%  | 106,916 | 74.18%  | 241,872 | 74.89%  |  |
| Total | 178,833 | 100.00% | 144,131 | 100.00% | 322,964 | 100.00% |  |



## 2.5.1.4 Grades 6–8

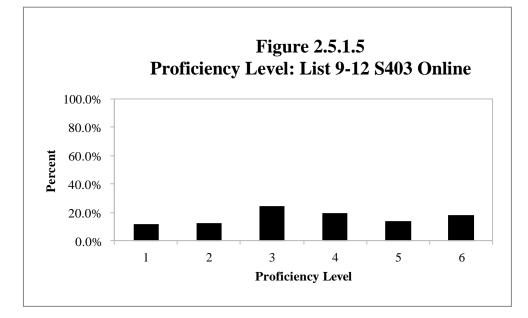
|       | Grade 6 |         | Grade 7 |         | Gra    | de 8    | Το      | otal    |
|-------|---------|---------|---------|---------|--------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count  | Percent | Count   | Percent |
| 1     | 2,982   | 2.92%   | 3,934   | 4.33%   | 4,869  | 5.75%   | 11,785  | 4.24%   |
| 2     | 4,475   | 4.38%   | 5,261   | 5.79%   | 6,449  | 7.61%   | 16,185  | 5.83%   |
| 3     | 16,732  | 16.38%  | 17,538  | 19.29%  | 15,109 | 17.83%  | 49,379  | 17.78%  |
| 4     | 16,370  | 16.03%  | 16,225  | 17.85%  | 13,574 | 16.02%  | 46,169  | 16.62%  |
| 5     | 22,048  | 21.59%  | 15,114  | 16.62%  | 12,484 | 14.73%  | 49,646  | 17.87%  |
| 6     | 39,526  | 38.70%  | 32,844  | 36.13%  | 32,253 | 38.06%  | 104,623 | 37.66%  |
| Total | 102,133 | 100.00% | 90,916  | 100.00% | 84,738 | 100.00% | 277,787 | 100.00% |



## 2.5.1.5 Grades 9–12

Proficiency Level Distribution: List 9-12 S403 Online

|       | Grade 9 |         | Gra    | de 10   | Grade 11 |         | Gra    | de 12   | Total   |         |
|-------|---------|---------|--------|---------|----------|---------|--------|---------|---------|---------|
| Level | Count   | Percent | Count  | Percent | Count    | Percent | Count  | Percent | Count   | Percent |
| 1     | 7,598   | 7.80%   | 9,665  | 12.03%  | 10,424   | 14.57%  | 7,971  | 15.19%  | 35,658  | 11.82%  |
| 2     | 14,155  | 14.53%  | 10,525 | 13.10%  | 6,931    | 9.69%   | 6,730  | 12.83%  | 38,341  | 12.71%  |
| 3     | 24,186  | 24.82%  | 18,780 | 23.37%  | 18,215   | 25.47%  | 11,974 | 22.82%  | 73,155  | 24.24%  |
| 4     | 19,509  | 20.02%  | 15,406 | 19.18%  | 12,864   | 17.98%  | 10,197 | 19.44%  | 57,976  | 19.21%  |
| 5     | 13,233  | 13.58%  | 10,491 | 13.06%  | 10,669   | 14.92%  | 6,843  | 13.04%  | 41,236  | 13.66%  |
| 6     | 18,750  | 19.24%  | 15,477 | 19.26%  | 12,426   | 17.37%  | 8,746  | 16.67%  | 55,399  | 18.36%  |
| Total | 97,431  | 100.00% | 80,344 | 100.00% | 71,529   | 100.00% | 52,461 | 100.00% | 301,765 | 100.00% |



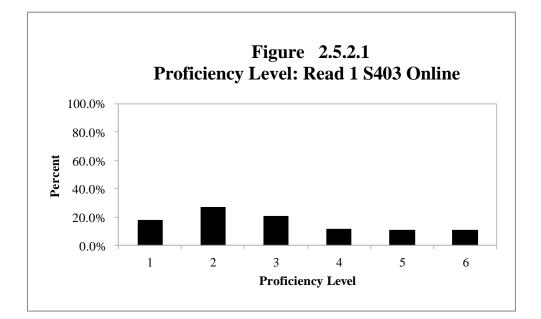
# 2.5.2 Reading

2.5.2.1 Grade 1

#### Table 2.5.2.1

Proficiency Level Distribution: Read 1 S403 Online

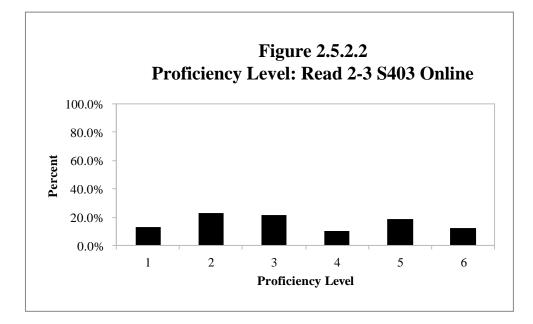
|       | Gra     | de 1    | To      | tal     |
|-------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent |
| 1     | 33,816  | 18.44%  | 33,816  | 18.44%  |
| 2     | 49,853  | 27.18%  | 49,853  | 27.18%  |
| 3     | 38,074  | 20.76%  | 38,074  | 20.76%  |
| 4     | 21,768  | 11.87%  | 21,768  | 11.87%  |
| 5     | 19,998  | 10.90%  | 19,998  | 10.90%  |
| 6     | 19,912  | 10.86%  | 19,912  | 10.86%  |
| Total | 183,421 | 100.00% | 183,421 | 100.00% |



## 2.5.2.2 Grades 2–3

Proficiency Level Distribution: Read 2-3 S403 Online

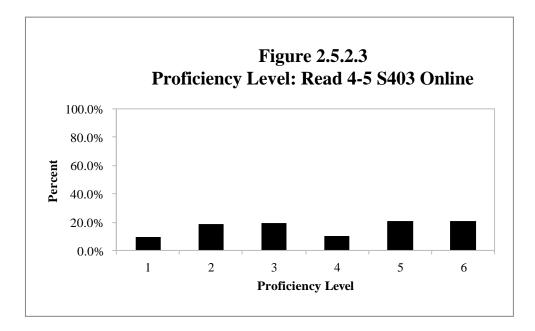
|       | Gra     | Grade 2 |         | de 3    | Τα      | otal    |
|-------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 22,892  | 12.28%  | 27,673  | 14.80%  | 50,565  | 13.54%  |
| 2     | 42,882  | 23.00%  | 44,247  | 23.67%  | 87,129  | 23.34%  |
| 3     | 45,239  | 24.27%  | 36,203  | 19.36%  | 81,442  | 21.81%  |
| 4     | 21,205  | 11.38%  | 17,754  | 9.50%   | 38,959  | 10.43%  |
| 5     | 34,136  | 18.31%  | 35,013  | 18.73%  | 69,149  | 18.52%  |
| 6     | 20,061  | 10.76%  | 26,066  | 13.94%  | 46,127  | 12.35%  |
| Total | 186,415 | 100.00% | 186,956 | 100.00% | 373,371 | 100.00% |



## 2.5.2.3 Grades 4–5

| Tioneleney |         | de 4    |         | de 5    | То      | tal     |  |
|------------|---------|---------|---------|---------|---------|---------|--|
|            | 014     |         | 014     | luc 5   | Total   |         |  |
| Level      | Count   | Percent | Count   | Percent | Count   | Percent |  |
| 1          | 14,447  | 8.19%   | 16,536  | 11.63%  | 30,983  | 9.72%   |  |
| 2          | 30,894  | 17.50%  | 28,253  | 19.88%  | 59,147  | 18.56%  |  |
| 3          | 33,552  | 19.01%  | 28,215  | 19.85%  | 61,767  | 19.38%  |  |
| 4          | 21,406  | 12.13%  | 11,917  | 8.38%   | 33,323  | 10.46%  |  |
| 5          | 38,129  | 21.60%  | 27,748  | 19.52%  | 65,877  | 20.67%  |  |
| 6          | 38,064  | 21.57%  | 29,480  | 20.74%  | 67,544  | 21.20%  |  |
| Total      | 176,492 | 100.00% | 142,149 | 100.00% | 318,641 | 100.00% |  |

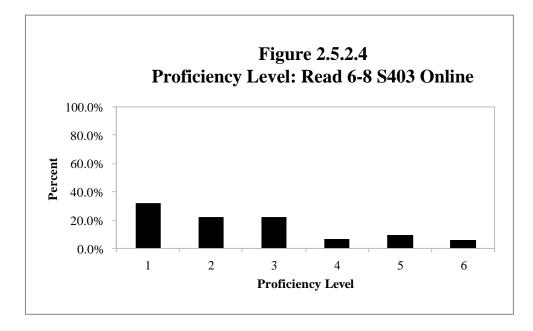
Proficiency Level Distribution: Read 4-5 S403 Online



## 2.5.2.4 Grades 6-8

|       | Grade 6 |         | Gra    | de 7    | Grade 8 |         | To      | Total   |  |
|-------|---------|---------|--------|---------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count  | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 31,825  | 31.19%  | 29,924 | 32.78%  | 27,146  | 32.07%  | 88,895  | 31.98%  |  |
| 2     | 23,449  | 22.98%  | 19,833 | 21.73%  | 19,502  | 23.04%  | 62,784  | 22.59%  |  |
| 3     | 24,836  | 24.34%  | 21,103 | 23.12%  | 16,662  | 19.68%  | 62,601  | 22.52%  |  |
| 4     | 7,856   | 7.70%   | 6,360  | 6.97%   | 5,433   | 6.42%   | 19,649  | 7.07%   |  |
| 5     | 9,764   | 9.57%   | 7,596  | 8.32%   | 10,129  | 11.96%  | 27,489  | 9.89%   |  |
| 6     | 4,292   | 4.21%   | 6,461  | 7.08%   | 5,786   | 6.83%   | 16,539  | 5.95%   |  |
| Total | 102,022 | 100.00% | 91,277 | 100.00% | 84,658  | 100.00% | 277,957 | 100.00% |  |

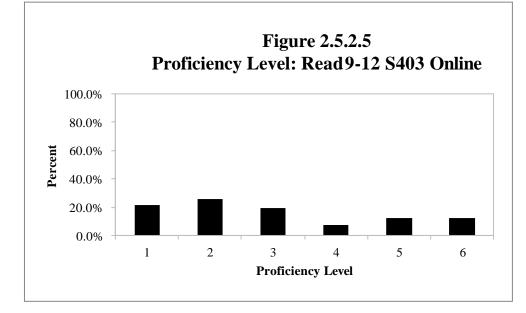
Proficiency Level Distribution: Read 6-8 S403 Online



## 2.5.2.5 Grades 9–12

Proficiency Level Distribution: Read 9-12 S403 Online

|       | Grade 9 |         | Gra    | de 10   | Grade 11 |         | Grade 12 |         | Total   |         |
|-------|---------|---------|--------|---------|----------|---------|----------|---------|---------|---------|
| Level | Count   | Percent | Count  | Percent | Count    | Percent | Count    | Percent | Count   | Percent |
| 1     | 23,743  | 24.62%  | 16,769 | 21.14%  | 13,656   | 19.46%  | 10,977   | 21.16%  | 65,145  | 21.87%  |
| 2     | 24,163  | 25.06%  | 19,604 | 24.71%  | 18,573   | 26.47%  | 14,469   | 27.89%  | 76,809  | 25.79%  |
| 3     | 19,044  | 19.75%  | 16,490 | 20.79%  | 12,974   | 18.49%  | 10,204   | 19.67%  | 58,712  | 19.71%  |
| 4     | 6,243   | 6.47%   | 6,432  | 8.11%   | 5,751    | 8.20%   | 4,276    | 8.24%   | 22,702  | 7.62%   |
| 5     | 11,403  | 11.83%  | 11,284 | 14.22%  | 8,817    | 12.56%  | 6,224    | 12.00%  | 37,728  | 12.67%  |
| 6     | 11,833  | 12.27%  | 8,751  | 11.03%  | 10,402   | 14.82%  | 5,737    | 11.06%  | 36,723  | 12.33%  |
| Total | 96,429  | 100.00% | 79,330 | 100.00% | 70,173   | 100.00% | 51,887   | 100.00% | 297,819 | 100.00% |



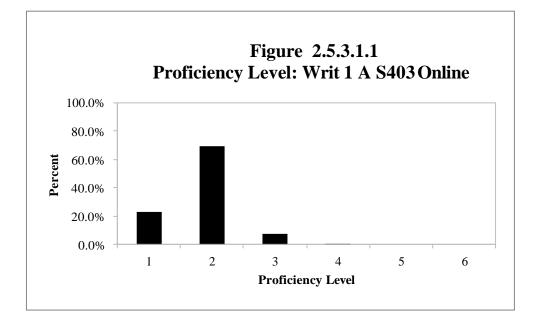
## 2.5.3 Writing

2.5.3.1 Grade 1

#### Table 2.5.3.1.1

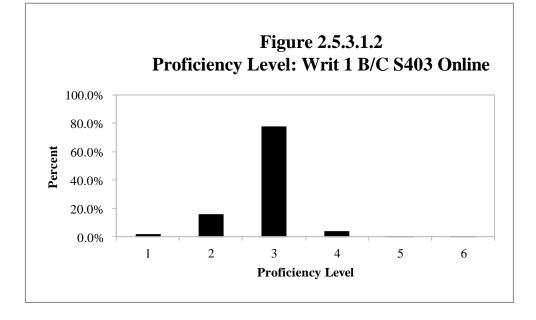
Proficiency Level Distribution: Writ 1 A S403 Online

|       | Gra     | de 1    | To      | tal     |
|-------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent |
| 1     | 35,964  | 23.27%  | 35,964  | 23.27%  |
| 2     | 107,345 | 69.46%  | 107,345 | 69.46%  |
| 3     | 11,240  | 7.27%   | 11,240  | 7.27%   |
| 4     | 1       | 0.00%   | 1       | 0.00%   |
| 5     | 0       | 0.00%   | 0       | 0.00%   |
| 6     | 0       | 0.00%   | 0       | 0.00%   |
| Total | 154,550 | 100.00% | 154,550 | 100.00% |



|       | Gra    | de 1    | To     | otal    |
|-------|--------|---------|--------|---------|
| Level | Count  | Percent | Count  | Percent |
| 1     | 596    | 1.70%   | 596    | 1.70%   |
| 2     | 5,567  | 15.86%  | 5,567  | 15.86%  |
| 3     | 27,420 | 78.14%  | 27,420 | 78.14%  |
| 4     | 1,505  | 4.29%   | 1,505  | 4.29%   |
| 5     | 4      | 0.01%   | 4      | 0.01%   |
| 6     | 1      | 0.00%   | 1      | 0.00%   |
| Total | 35,093 | 100.00% | 35,093 | 100.00% |

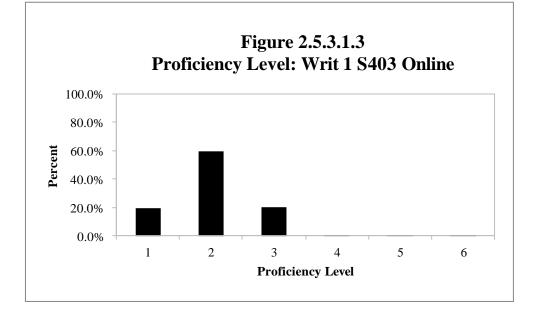
Proficiency Level Distribution: Writ 1 B/C S403 Online



|       | Gra     | de 1    | To      | tal     |
|-------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent |
| 1     | 36,560  | 19.28%  | 36,560  | 19.28%  |
| 2     | 112,912 | 59.54%  | 112,912 | 59.54%  |
| 3     | 38,660  | 20.39%  | 38,660  | 20.39%  |
| 4     | 1,506   | 0.79%   | 1,506   | 0.79%   |
| 5     | 4       | 0.00%   | 4       | 0.00%   |
| 6     | 1       | 0.00%   | 1       | 0.00%   |
| Total | 189,643 | 100.00% | 189,643 | 100.00% |

 Table 2.5.3.1.3

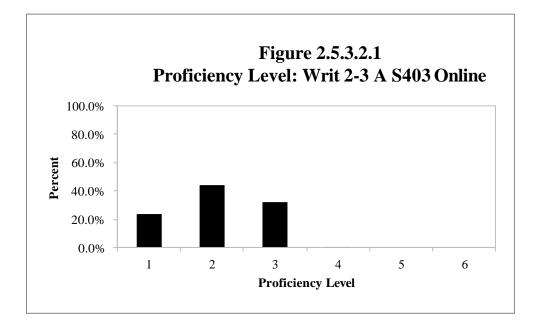
 Proficiency Level Distribution: Writ 1 \$403 Online



### 2.5.3.2 Grades 2–3

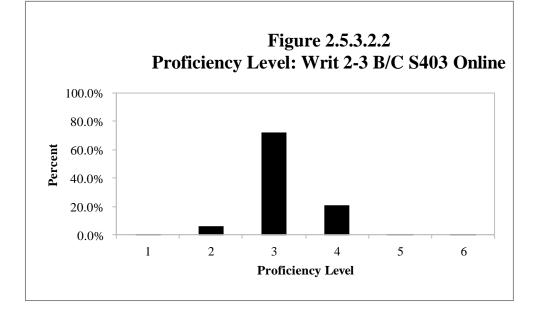
Proficiency Level Distribution: Writ 2-3 A S403 Online

|       | Gra    | nde 2   | Gra    | ide 3   | Та     | otal    |
|-------|--------|---------|--------|---------|--------|---------|
| Level | Count  | Percent | Count  | Percent | Count  | Percent |
| 1     | 13,151 | 23.41%  | 8,905  | 23.78%  | 22,056 | 23.56%  |
| 2     | 22,624 | 40.28%  | 18,528 | 49.48%  | 41,152 | 43.96%  |
| 3     | 20,389 | 36.30%  | 9,993  | 26.69%  | 30,382 | 32.45%  |
| 4     | 3      | 0.01%   | 21     | 0.06%   | 24     | 0.03%   |
| 5     | 0      | 0.00%   | 0      | 0.00%   | 0      | 0.00%   |
| 6     | 0      | 0.00%   | 0      | 0.00%   | 0      | 0.00%   |
| Total | 56,167 | 100.00% | 37,447 | 100.00% | 93,614 | 100.00% |



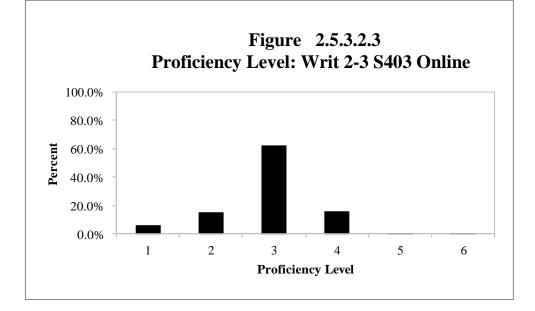
|       | Grade 2 |         | Gra     | de 3    | Τα      | tal     |
|-------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 870     | 0.63%   | 446     | 0.28%   | 1,316   | 0.44%   |
| 2     | 12,607  | 9.09%   | 5,847   | 3.70%   | 18,454  | 6.22%   |
| 3     | 106,511 | 76.80%  | 107,082 | 67.78%  | 213,593 | 72.00%  |
| 4     | 18,500  | 13.34%  | 43,475  | 27.52%  | 61,975  | 20.89%  |
| 5     | 189     | 0.14%   | 1,066   | 0.67%   | 1,255   | 0.42%   |
| 6     | 7       | 0.01%   | 63      | 0.04%   | 70      | 0.02%   |
| Total | 138,684 | 100.00% | 157,979 | 100.00% | 296,663 | 100.00% |

Proficiency Level Distribution: Writ 2-3 B/C S403 Online



|       | Grade 2 |         | Gra     | de 3    | Total   |         |  |
|-------|---------|---------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 14,021  | 7.20%   | 9,351   | 4.78%   | 23,372  | 5.99%   |  |
| 2     | 35,231  | 18.08%  | 24,375  | 12.47%  | 59,606  | 15.27%  |  |
| 3     | 126,900 | 65.13%  | 117,075 | 59.91%  | 243,975 | 62.51%  |  |
| 4     | 18,503  | 9.50%   | 43,496  | 22.26%  | 61,999  | 15.89%  |  |
| 5     | 189     | 0.10%   | 1,066   | 0.55%   | 1,255   | 0.32%   |  |
| 6     | 7       | 0.00%   | 63      | 0.03%   | 70      | 0.02%   |  |
| Total | 194,851 | 100.00% | 195,426 | 100.00% | 390,277 | 100.00% |  |

Proficiency Level Distribution: Writ 2-3 S403 Online

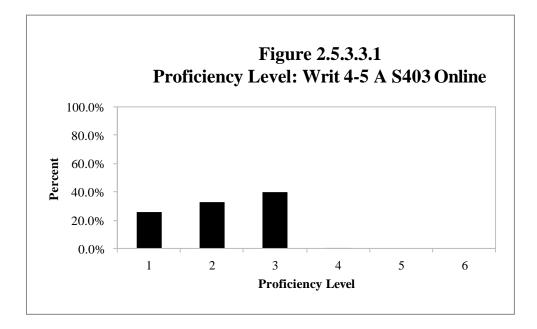


#### 2.5.3.3 Grades 4–5

#### Table 2.5.3.3.1

Proficiency Level Distribution: Writ 4-5 A S403 Online

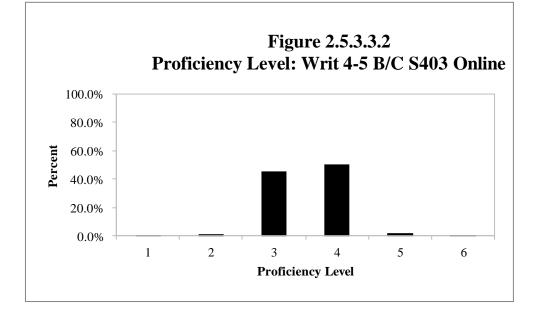
|       | Grade 4 |         | Gra    | ide 5   | Та     | Total   |  |  |
|-------|---------|---------|--------|---------|--------|---------|--|--|
| Level | Count   | Percent | Count  | Percent | Count  | Percent |  |  |
| 1     | 6,526   | 29.38%  | 4,940  | 22.46%  | 11,466 | 25.94%  |  |  |
| 2     | 6,685   | 30.09%  | 8,000  | 36.37%  | 14,685 | 33.22%  |  |  |
| 3     | 8,834   | 39.77%  | 8,923  | 40.57%  | 17,757 | 40.17%  |  |  |
| 4     | 168     | 0.76%   | 133    | 0.60%   | 301    | 0.68%   |  |  |
| 5     | 0       | 0.00%   | 0      | 0.00%   | 0      | 0.00%   |  |  |
| 6     | 0       | 0.00%   | 0      | 0.00%   | 0      | 0.00%   |  |  |
| Total | 22,213  | 100.00% | 21,996 | 100.00% | 44,209 | 100.00% |  |  |



|       | Grade 4 |         | Gra     | de 5    | Total   |         |  |
|-------|---------|---------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 963     | 0.66%   | 304     | 0.26%   | 1,267   | 0.48%   |  |
| 2     | 2,486   | 1.70%   | 1,522   | 1.32%   | 4,008   | 1.53%   |  |
| 3     | 71,111  | 48.52%  | 47,825  | 41.51%  | 118,936 | 45.43%  |  |
| 4     | 69,508  | 47.42%  | 62,233  | 54.01%  | 131,741 | 50.32%  |  |
| 5     | 2,377   | 1.62%   | 3,248   | 2.82%   | 5,625   | 2.15%   |  |
| 6     | 130     | 0.09%   | 93      | 0.08%   | 223     | 0.09%   |  |
| Total | 146,575 | 100.00% | 115,225 | 100.00% | 261,800 | 100.00% |  |

Proficiency Level Distribution: Writ 4-5 B/C S403 Online

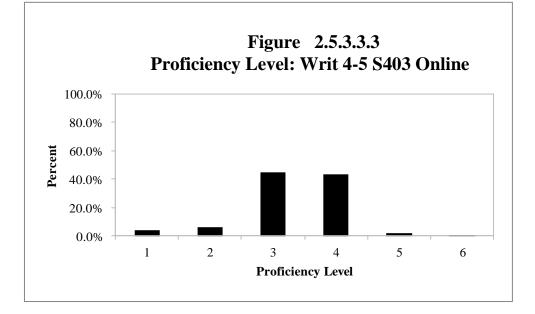
Table 2.5.3.3.2



|       | Gra     | de 4    | Gra     | de 5    | Total   |         |  |
|-------|---------|---------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 7,489   | 4.44%   | 5,244   | 3.82%   | 12,733  | 4.16%   |  |
| 2     | 9,171   | 5.43%   | 9,522   | 6.94%   | 18,693  | 6.11%   |  |
| 3     | 79,945  | 47.36%  | 56,748  | 41.36%  | 136,693 | 44.67%  |  |
| 4     | 69,676  | 41.28%  | 62,366  | 45.45%  | 132,042 | 43.15%  |  |
| 5     | 2,377   | 1.41%   | 3,248   | 2.37%   | 5,625   | 1.84%   |  |
| 6     | 130     | 0.08%   | 93      | 0.07%   | 223     | 0.07%   |  |
| Total | 168,788 | 100.00% | 137,221 | 100.00% | 306,009 | 100.00% |  |

Proficiency Level Distribution: Writ 4-5 S403 Online

Table 2.5.3.3.3

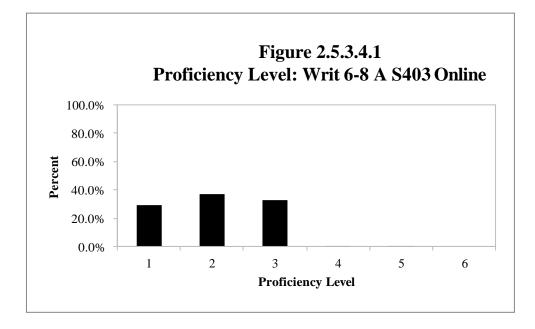


### 2.5.3.4 Grades 6–8

#### Table 2.5.3.4.1

Proficiency Level Distribution: Writ 6-8 A S403 Online

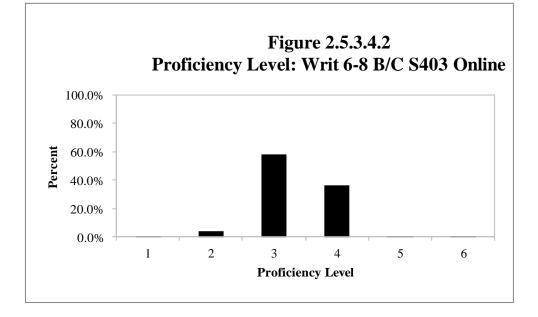
|       | Grade 6 |         | Grade 7 |         | Gra    | ide 8   | Το      | otal    |
|-------|---------|---------|---------|---------|--------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count  | Percent | Count   | Percent |
| 1     | 8,641   | 27.86%  | 9,881   | 28.40%  | 10,974 | 32.02%  | 29,496  | 29.47%  |
| 2     | 12,170  | 39.23%  | 14,368  | 41.29%  | 10,842 | 31.64%  | 37,380  | 37.35%  |
| 3     | 10,140  | 32.69%  | 10,281  | 29.55%  | 12,292 | 35.87%  | 32,713  | 32.68%  |
| 4     | 70      | 0.23%   | 264     | 0.76%   | 163    | 0.48%   | 497     | 0.50%   |
| 5     | 0       | 0.00%   | 0       | 0.00%   | 1      | 0.00%   | 1       | 0.00%   |
| 6     | 0       | 0.00%   | 0       | 0.00%   | 0      | 0.00%   | 0       | 0.00%   |
| Total | 31,021  | 100.00% | 34,794  | 100.00% | 34,272 | 100.00% | 100,087 | 100.00% |



|       | Grade 6 |         | Grade 7 |         | Gra    | de 8    | Το      | otal    |
|-------|---------|---------|---------|---------|--------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count  | Percent | Count   | Percent |
| 1     | 336     | 0.50%   | 182     | 0.34%   | 282    | 0.59%   | 800     | 0.47%   |
| 2     | 3,132   | 4.66%   | 2,212   | 4.13%   | 1,514  | 3.17%   | 6,858   | 4.07%   |
| 3     | 41,721  | 62.06%  | 29,621  | 55.29%  | 27,093 | 56.67%  | 98,435  | 58.38%  |
| 4     | 21,900  | 32.58%  | 21,387  | 39.92%  | 18,671 | 39.06%  | 61,958  | 36.75%  |
| 5     | 132     | 0.20%   | 162     | 0.30%   | 231    | 0.48%   | 525     | 0.31%   |
| 6     | 6       | 0.01%   | 11      | 0.02%   | 14     | 0.03%   | 31      | 0.02%   |
| Total | 67,227  | 100.00% | 53,575  | 100.00% | 47,805 | 100.00% | 168,607 | 100.00% |

Proficiency Level Distribution: Writ 6-8 B/C S403 Online

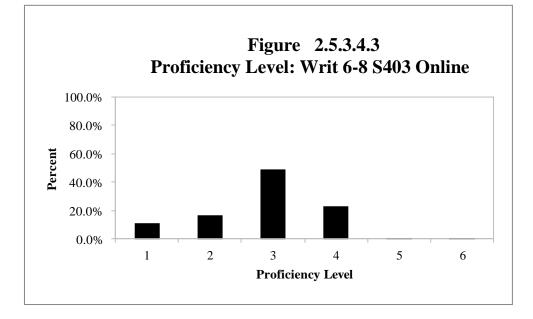
Table 2.5.3.4.2



|       | Grade 6 |         | Grade 7 |         | Grade 8 |         | To      | tal     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 8,977   | 9.14%   | 10,063  | 11.39%  | 11,256  | 13.71%  | 30,296  | 11.28%  |
| 2     | 15,302  | 15.57%  | 16,580  | 18.76%  | 12,356  | 15.05%  | 44,238  | 16.46%  |
| 3     | 51,861  | 52.79%  | 39,902  | 45.15%  | 39,385  | 47.99%  | 131,148 | 48.81%  |
| 4     | 21,970  | 22.36%  | 21,651  | 24.50%  | 18,834  | 22.95%  | 62,455  | 23.24%  |
| 5     | 132     | 0.13%   | 162     | 0.18%   | 232     | 0.28%   | 526     | 0.20%   |
| 6     | 6       | 0.01%   | 11      | 0.01%   | 14      | 0.02%   | 31      | 0.01%   |
| Total | 98,248  | 100.00% | 88,369  | 100.00% | 82,077  | 100.00% | 268,694 | 100.00% |

Proficiency Level Distribution: Writ 6-8 S403 Online

Table 2.5.3.4.3

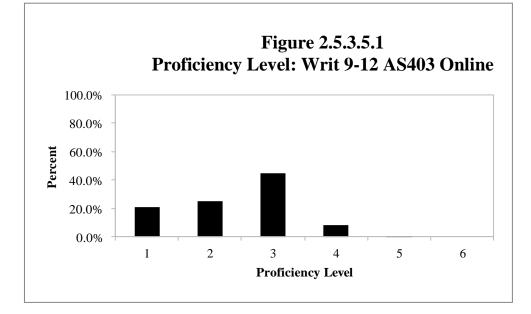


### 2.5.3.5 Grades 9–12

Table 2.5.3.5.1

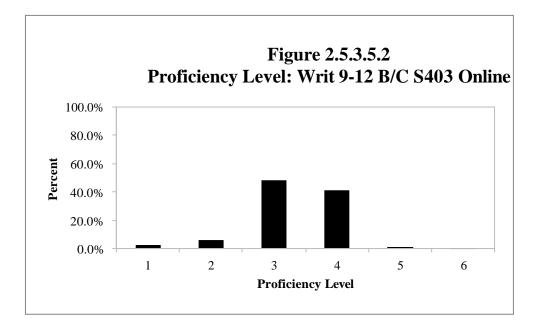
Proficiency Level Distribution: Writ 9-12 A S403 Online

|       | Gra    | nde 9   | Gra    | de 10   | Gra    | de 11   | Gra    | de 12   | Τα      | otal    |
|-------|--------|---------|--------|---------|--------|---------|--------|---------|---------|---------|
| Level | Count  | Percent | Count  | Percent | Count  | Percent | Count  | Percent | Count   | Percent |
| 1     | 8,617  | 20.75%  | 5,218  | 18.13%  | 5,037  | 21.71%  | 4,090  | 26.62%  | 22,962  | 21.09%  |
| 2     | 10,754 | 25.89%  | 7,258  | 25.22%  | 5,530  | 23.83%  | 4,226  | 27.51%  | 27,768  | 25.51%  |
| 3     | 18,579 | 44.74%  | 13,225 | 45.96%  | 10,993 | 47.38%  | 5,883  | 38.29%  | 48,680  | 44.71%  |
| 4     | 3,558  | 8.57%   | 3,045  | 10.58%  | 1,638  | 7.06%   | 1,163  | 7.57%   | 9,404   | 8.64%   |
| 5     | 23     | 0.06%   | 30     | 0.10%   | 4      | 0.02%   | 1      | 0.01%   | 58      | 0.05%   |
| 6     | 0      | 0.00%   | 0      | 0.00%   | 0      | 0.00%   | 0      | 0.00%   | 0       | 0.00%   |
| Total | 41,531 | 100.00% | 28,776 | 100.00% | 23,202 | 100.00% | 15,363 | 100.00% | 108,872 | 100.00% |



|       | Gra    | ide 9   | Gra    | de 10   | Gra    | de 11   | Gra    | de 12   | To      | otal    |
|-------|--------|---------|--------|---------|--------|---------|--------|---------|---------|---------|
| Level | Count  | Percent | Count  | Percent | Count  | Percent | Count  | Percent | Count   | Percent |
| 1     | 605    | 1.13%   | 905    | 1.83%   | 1,586  | 3.45%   | 2,440  | 6.82%   | 5,536   | 3.00%   |
| 2     | 2,866  | 5.35%   | 2,785  | 5.64%   | 2,797  | 6.08%   | 3,166  | 8.85%   | 11,614  | 6.29%   |
| 3     | 24,521 | 45.77%  | 24,575 | 49.75%  | 22,259 | 48.38%  | 17,756 | 49.64%  | 89,111  | 48.23%  |
| 4     | 24,580 | 45.88%  | 20,312 | 41.12%  | 19,000 | 41.30%  | 12,247 | 34.24%  | 76,139  | 41.21%  |
| 5     | 997    | 1.86%   | 817    | 1.65%   | 367    | 0.80%   | 163    | 0.46%   | 2,344   | 1.27%   |
| 6     | 9      | 0.02%   | 2      | 0.00%   | 0      | 0.00%   | 0      | 0.00%   | 11      | 0.01%   |
| Total | 53,578 | 100.00% | 49,396 | 100.00% | 46,009 | 100.00% | 35,772 | 100.00% | 184,755 | 100.00% |

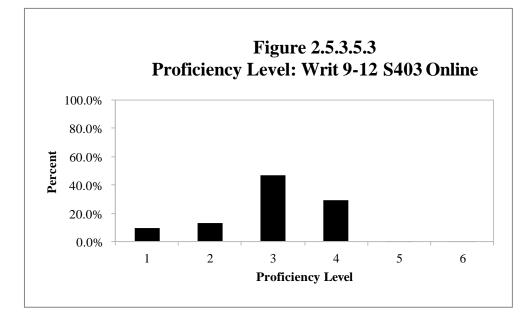
Table 2.5.3.5.2 Proficiency Level Distribution: Writ 9-12 B/C S403 Online



|       | Gra    | ide 9   | Gra    | de 10   | Gra    | de 11   | Gra    | de 12   | To      | tal     |
|-------|--------|---------|--------|---------|--------|---------|--------|---------|---------|---------|
| Level | Count  | Percent | Count  | Percent | Count  | Percent | Count  | Percent | Count   | Percent |
| 1     | 9,222  | 9.70%   | 6,123  | 7.83%   | 6,623  | 9.57%   | 6,530  | 12.77%  | 28,498  | 9.71%   |
| 2     | 13,620 | 14.32%  | 10,043 | 12.85%  | 8,327  | 12.03%  | 7,392  | 14.46%  | 39,382  | 13.41%  |
| 3     | 43,100 | 45.32%  | 37,800 | 48.35%  | 33,252 | 48.04%  | 23,639 | 46.23%  | 137,791 | 46.93%  |
| 4     | 28,138 | 29.59%  | 23,357 | 29.88%  | 20,638 | 29.82%  | 13,410 | 26.22%  | 85,543  | 29.13%  |
| 5     | 1,020  | 1.07%   | 847    | 1.08%   | 371    | 0.54%   | 164    | 0.32%   | 2,402   | 0.82%   |
| 6     | 9      | 0.01%   | 2      | 0.00%   | 0      | 0.00%   | 0      | 0.00%   | 11      | 0.00%   |
| Total | 95,109 | 100.00% | 78,172 | 100.00% | 69,211 | 100.00% | 51,135 | 100.00% | 293,627 | 100.00% |

 Table 2.5.3.5.3

 Proficiency Level Distribution: Writ 9-12 \$403 Online



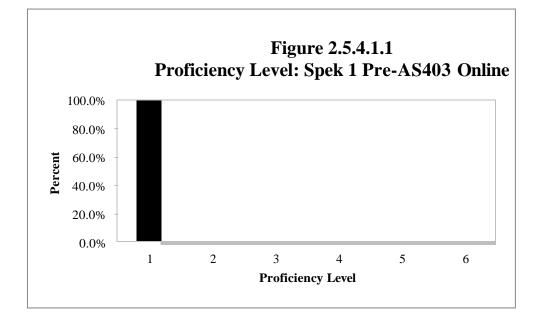
# 2.5.4 Speaking

2.5.4.1 Grade 1

### Table 2.5.4.1.1

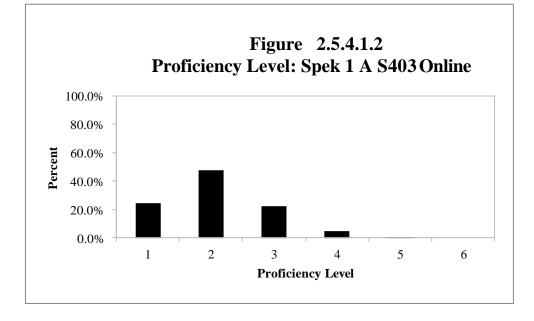
Proficiency Level Distribution: Spek 1 Pre-A S403 Online

|       | Gra   | de 1    | Total |         |  |
|-------|-------|---------|-------|---------|--|
| Level | Count | Percent | Count | Percent |  |
| 1     | 5,158 | 100.00% | 5,158 | 100.00% |  |
| Total | 5,158 | 100.00% | 5,158 | 100.00% |  |



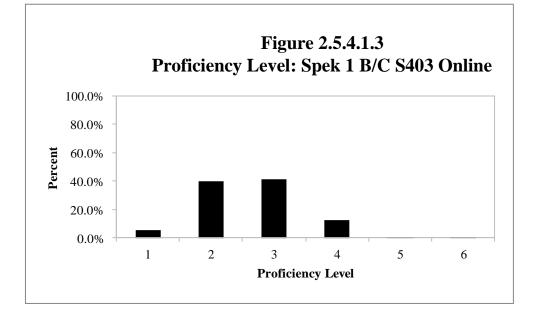
|       | Gra    | de 1    | To     | otal    |
|-------|--------|---------|--------|---------|
| Level | Count  | Percent | Count  | Percent |
| 1     | 15,109 | 24.64%  | 15,109 | 24.64%  |
| 2     | 29,243 | 47.69%  | 29,243 | 47.69%  |
| 3     | 13,639 | 22.24%  | 13,639 | 22.24%  |
| 4     | 3,086  | 5.03%   | 3,086  | 5.03%   |
| 5     | 246    | 0.40%   | 246    | 0.40%   |
| 6     | 0      | 0.00%   | 0      | 0.00%   |
| Total | 61,323 | 100.00% | 61,323 | 100.00% |

Proficiency Level Distribution: Spek 1 A S403 Online



|       | Gra     | de 1    | To      | tal     |
|-------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent |
| 1     | 6,353   | 5.72%   | 6,353   | 5.72%   |
| 2     | 44,277  | 39.87%  | 44,277  | 39.87%  |
| 3     | 45,999  | 41.42%  | 45,999  | 41.42%  |
| 4     | 14,100  | 12.70%  | 14,100  | 12.70%  |
| 5     | 295     | 0.27%   | 295     | 0.27%   |
| 6     | 19      | 0.02%   | 19      | 0.02%   |
| Total | 111,043 | 100.00% | 111,043 | 100.00% |

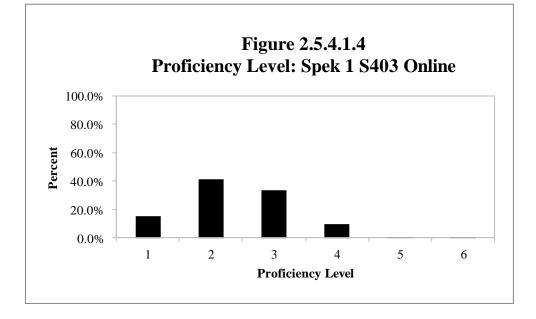
Proficiency Level Distribution: Spek 1 B/C S403 Online



|       | Grade 1 |         | Total   |         |  |
|-------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent |  |
| 1     | 26,620  | 15.00%  | 26,620  | 15.00%  |  |
| 2     | 73,520  | 41.41%  | 73,520  | 41.41%  |  |
| 3     | 59,638  | 33.59%  | 59,638  | 33.59%  |  |
| 4     | 17,186  | 9.68%   | 17,186  | 9.68%   |  |
| 5     | 541     | 0.30%   | 541     | 0.30%   |  |
| 6     | 19      | 0.01%   | 19      | 0.01%   |  |
| Total | 177,524 | 100.00% | 177,524 | 100.00% |  |

 Table 2.5.4.1.4

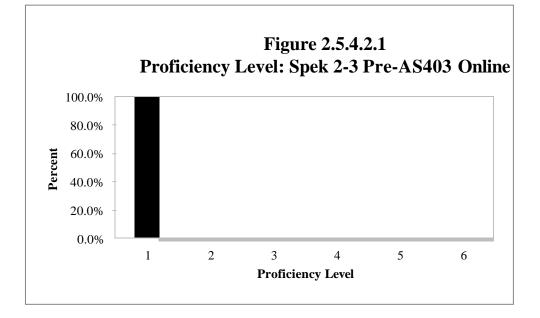
 Proficiency Level Distribution: Spek 1 S403 Online



### 2.5.4.2 Grades 2–3

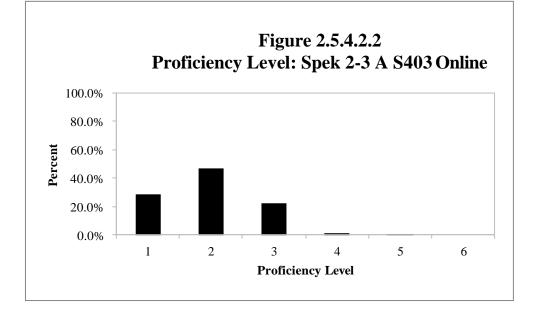
| Toneteney Level Distribution. Spec 2 5 The T15 105 Omme |         |         |         |         |        |         |  |  |  |
|---|---------|---------|---------|---------|--------|---------|--|--|--|
|   | Grade 2 |         | Grade 3 |         | Total  |         |  |  |  |
| Level   | Count   | Percent | Count   | Percent | Count  | Percent |  |  |  |
| 1   | 6,879   | 100.00% | 9,480   | 100.00% | 16,359 | 100.00% |  |  |  |
| Total   | 6,879   | 100.00% | 9,480   | 100.00% | 16,359 | 100.00% |  |  |  |

Proficiency Level Distribution: Spek 2-3 Pre-A S403 Online



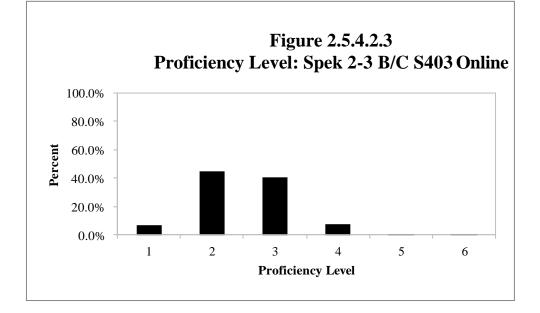
|       | Gra            | de 2    | Gra     | de 3          | Total  |         |  |
|-------|----------------|---------|---------|---------------|--------|---------|--|
| Level | Count          | Percent | Count   | Count Percent |        | Percent |  |
| 1     | 11,774         | 28.31%  | 11,071  | 29.58%        | 22,845 | 28.91%  |  |
| 2     | 18,299         | 44.00%  | 19,046  | 50.89%        | 37,345 | 47.26%  |  |
| 3     | 11,107         | 26.71%  | 6,444   | 17.22%        | 17,551 | 22.21%  |  |
| 4     | 392            | 0.94%   | 868     | 2.32%         | 1,260  | 1.59%   |  |
| 5     | 12             | 0.03%   | 0 0.00% |               | 12     | 0.02%   |  |
| 6     | 0 0.00%        |         | 0       | 0.00%         | 0      | 0.00%   |  |
| Total | 41,584 100.00% |         | 37,429  | 100.00%       | 79,013 | 100.00% |  |

Proficiency Level Distribution: Spek 2-3 A S403 Online



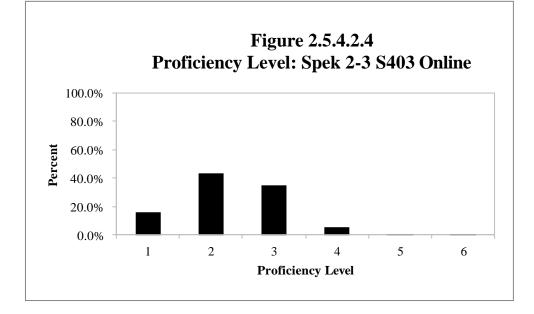
|       | Gra           | de 2        | Gra     | de 3    | Total   |         |  |
|-------|---------------|-------------|---------|---------|---------|---------|--|
| Level | Count         | Percent     | Count   | Percent | Count   | Percent |  |
| 1     | 8,310         | 8,310 6.21% |         | 7.72%   | 18,868  | 6.98%   |  |
| 2     | 61,888        | 46.26%      | 59,228  | 43.32%  | 121,116 | 44.78%  |  |
| 3     | 53,268 39.82% |             | 56,541  | 41.36%  | 109,809 | 40.60%  |  |
| 4     | 9,906         | 7.40%       | 10,055  | 7.35%   | 19,961  | 7.38%   |  |
| 5     | 383           | 0.29%       | 250     | 0.18%   | 633     | 0.23%   |  |
| 6     | 30            | 0.02%       | 78      | 0.06%   | 108     | 0.04%   |  |
| Total | 133,785       | 100.00%     | 136,710 | 100.00% | 270,495 | 100.00% |  |

Proficiency Level Distribution: Spek 2-3 B/C S403 Online



|       | Gra           | de 2    | Gra     | de 3          | Total   |         |  |
|-------|---------------|---------|---------|---------------|---------|---------|--|
| Level | Count         | Percent | Count   | Count Percent |         | Percent |  |
| 1     | 26,963        | 14.79%  | 31,109  | 16.94%        | 58,072  | 15.87%  |  |
| 2     | 80,187        | 44.00%  | 78,274  | 42.63%        | 158,461 | 43.31%  |  |
| 3     | 64,375 35.32% |         | 62,985  | 34.30%        | 127,360 | 34.81%  |  |
| 4     | 10,298        | 5.65%   | 10,923  | 5.95%         | 21,221  | 5.80%   |  |
| 5     | 395           | 0.22%   | 250     | 0.14%         | 645     | 0.18%   |  |
| 6     | 30            | 0.02%   | 78      | 0.04%         | 108     | 0.03%   |  |
| Total | 182,248       | 100.00% | 183,619 | 100.00%       | 365,867 | 100.00% |  |

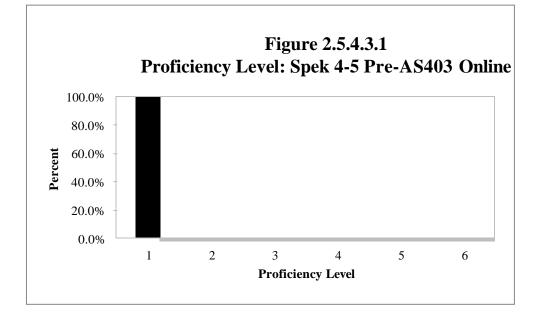
Proficiency Level Distribution: Spek 2-3 S403 Online



## 2.5.4.3 Grades 4–5

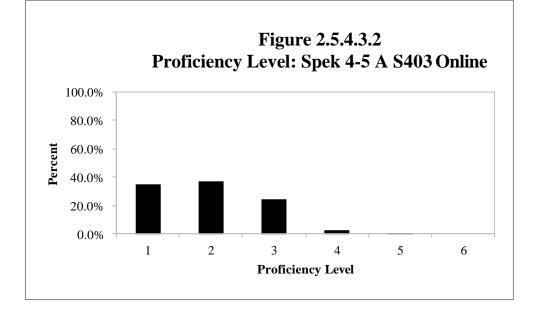
|       |               | de 4    |       | ide 5         | Total |         |  |
|-------|---------------|---------|-------|---------------|-------|---------|--|
| Level | Count Percent |         | Count | Count Percent |       | Percent |  |
| 1     | 2,390 100.00% |         | 3,621 | 3,621 100.00% |       | 100.00% |  |
| Total | 2,390         | 100.00% | 3,621 | 100.00%       | 6,011 | 100.00% |  |

Proficiency Level Distribution: Spek 4-5 Pre-A S403 Online



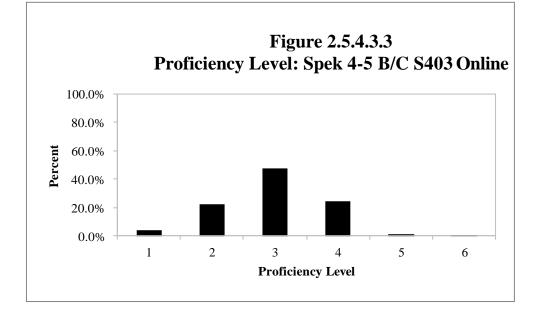
|       | Gra            | de 4    | Gra          | de 5          | Total  |         |  |
|-------|----------------|---------|--------------|---------------|--------|---------|--|
| Level | Count          | Percent | Count        | Count Percent |        | Percent |  |
| 1     | 4,802          | 30.54%  | 4,989        | 40.64%        | 9,791  | 34.97%  |  |
| 2     | 5,213          | 33.15%  | 5,257        | 42.83%        | 10,470 | 37.39%  |  |
| 3     | 5,062          | 32.19%  | 1,857 15.13% |               | 6,919  | 24.71%  |  |
| 4     | 644            | 4.10%   | 171          | 1.39%         | 815    | 2.91%   |  |
| 5     | 5              | 0.03%   | 1            | 0.01%         | 6      | 0.02%   |  |
| 6     | 0 0.00%        |         | 0            | 0.00%         | 0      | 0.00%   |  |
| Total | 15,726 100.00% |         | 12,275       | 100.00%       | 28,001 | 100.00% |  |

Proficiency Level Distribution: Spek 4-5 A S403 Online



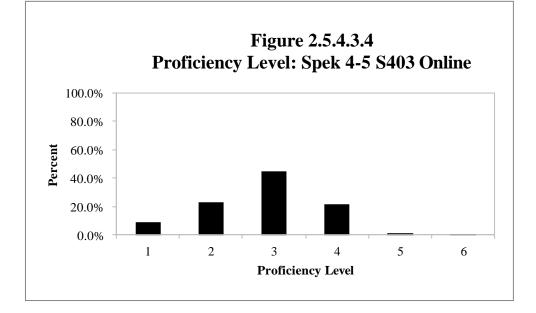
|       | Gra         | de 4    | Gra         | de 5          | Total   |         |  |
|-------|-------------|---------|-------------|---------------|---------|---------|--|
| Level | Count       | Percent | Count       | Count Percent |         | Percent |  |
| 1     | 5,366 3.45% |         | 6,663 5.37% |               | 12,029  | 4.30%   |  |
| 2     | 31,210      | 20.05%  | 31,192      | 25.15%        | 62,402  | 22.31%  |  |
| 3     | 75,006      | 48.19%  | 58,877      | 47.48%        | 133,883 | 47.88%  |  |
| 4     | 41,615      | 26.74%  | 26,076      | 21.03%        | 67,691  | 24.21%  |  |
| 5     | 2,336       | 1.50%   | 1,159       | 0.93%         | 3,495   | 1.25%   |  |
| 6     | 113         | 0.07%   | 33          | 0.03%         | 146     | 0.05%   |  |
| Total | 155,646     | 100.00% | 124,000     | 100.00%       | 279,646 | 100.00% |  |

Proficiency Level Distribution: Spek 4-5 B/C S403 Online



|       | Gra           | de 4    | Gra     | de 5    | Total   |         |  |
|-------|---------------|---------|---------|---------|---------|---------|--|
| Level | Count         | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 12,558        | 7.23%   | 15,273  | 10.92%  | 27,831  | 8.87%   |  |
| 2     | 36,423        | 20.96%  | 36,449  | 26.05%  | 72,872  | 23.23%  |  |
| 3     | 80,068 46.08% |         | 60,734  | 43.41%  | 140,802 | 44.89%  |  |
| 4     | 42,259        | 24.32%  | 26,247  | 18.76%  | 68,506  | 21.84%  |  |
| 5     | 2,341         | 1.35%   | 1,160   | 0.83%   | 3,501   | 1.12%   |  |
| 6     | 113           | 0.07%   | 33      | 0.02%   | 146     | 0.05%   |  |
| Total | 173,762       | 100.00% | 139,896 | 100.00% | 313,658 | 100.00% |  |

Proficiency Level Distribution: Spek 4-5 S403 Online



## 2.5.4.4 Grades 6–8

2,811

#### Table 2.5.4.4.1

Total

| Proficiency | Proficiency Level Distribution: Spek 6-8 Pre-A S403 Online |         |       |         |       |         |        |     |  |  |
|-------------|--|---------|-------|---------|-------|---------|--------|-----|--|--|
|             | Gra  | ide 6   | Gra   | de 7    | Gra   | de 8    | Total  |     |  |  |
| Level       | Count  | Percent | Count | Percent | Count | Percent | Count  | Pe  |  |  |
| 1           | 2.811  | 100.00% | 3.854 | 100.00% | 4.829 | 100.00% | 11.494 | 100 |  |  |

100.00%

3,854

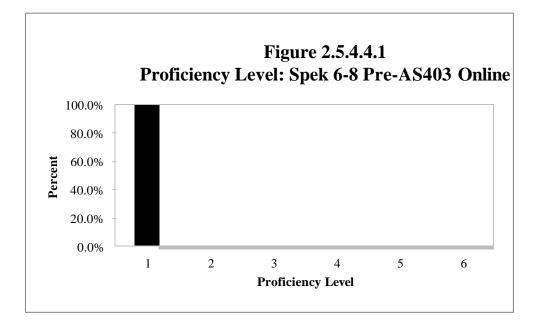
4,829

100.00%

11,494

Proficiency Level Distribution: Spek 6-8 Pre-A S403 Online

100.00%

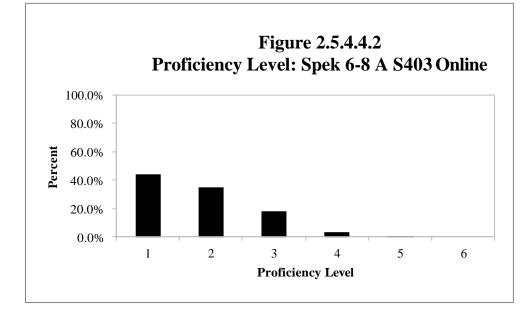


Percent 100.00%

100.00%

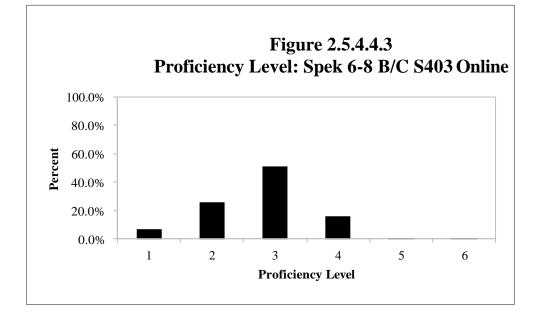
|       | Gra           | de 6    | Grade 7 |         | Grade 8 |         | Total  |         |
|-------|---------------|---------|---------|---------|---------|---------|--------|---------|
| Level | Count Percent |         | Count   | Percent | Count   | Percent | Count  | Percent |
| 1     | 7,007         | 39.17%  | 6,570   | 43.70%  | 11,802  | 47.38%  | 25,379 | 43.89%  |
| 2     | 7,499         | 41.92%  | 5,971   | 39.72%  | 6,618   | 26.57%  | 20,088 | 34.74%  |
| 3     | 2,974         | 16.63%  | 2,179   | 14.49%  | 5,408   | 21.71%  | 10,561 | 18.26%  |
| 4     | 397           | 2.22%   | 310     | 2.06%   | 1,076   | 4.32%   | 1,783  | 3.08%   |
| 5     | 10            | 0.06%   | 4       | 0.03%   | 4       | 0.02%   | 18     | 0.03%   |
| 6     | 0             | 0.00%   | 0       | 0.00%   | 0       | 0.00%   | 0      | 0.00%   |
| Total | 17,887        | 100.00% | 15,034  | 100.00% | 24,908  | 100.00% | 57,829 | 100.00% |

Proficiency Level Distribution: Spek 6-8 A S403 Online



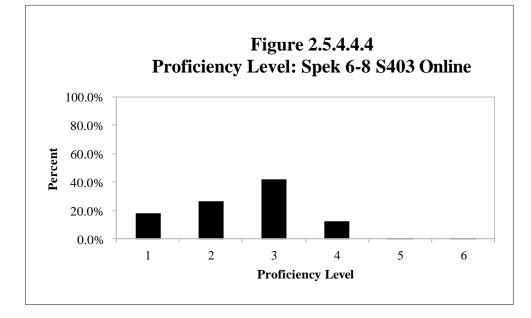
|       | Gra    | de 6    | Gra    | Grade 7 |        | Grade 8 |         | otal    |
|-------|--------|---------|--------|---------|--------|---------|---------|---------|
| Level | Count  | Percent | Count  | Percent | Count  | Percent | Count   | Percent |
| 1     | 3,990  | 4.99%   | 5,478  | 7.69%   | 4,331  | 7.98%   | 13,799  | 6.71%   |
| 2     | 19,381 | 24.21%  | 22,022 | 30.92%  | 11,520 | 21.23%  | 52,923  | 25.75%  |
| 3     | 40,707 | 50.86%  | 32,833 | 46.10%  | 30,886 | 56.92%  | 104,426 | 50.81%  |
| 4     | 15,742 | 19.67%  | 10,544 | 14.81%  | 7,268  | 13.39%  | 33,554  | 16.33%  |
| 5     | 191    | 0.24%   | 331    | 0.46%   | 234    | 0.43%   | 756     | 0.37%   |
| 6     | 27     | 0.03%   | 8      | 0.01%   | 23     | 0.04%   | 58      | 0.03%   |
| Total | 80,038 | 100.00% | 71,216 | 100.00% | 54,262 | 100.00% | 205,516 | 100.00% |

Proficiency Level Distribution: Spek 6-8 B/C S403 Online



|       | Gra     | de 6    | Gra    | de 7    | Grade 8 |         | To      | tal     |
|-------|---------|---------|--------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count  | Percent | Count   | Percent | Count   | Percent |
| 1     | 13,808  | 13.71%  | 15,902 | 17.65%  | 20,962  | 24.96%  | 50,672  | 18.44%  |
| 2     | 26,880  | 26.68%  | 27,993 | 31.07%  | 18,138  | 21.59%  | 73,011  | 26.57%  |
| 3     | 43,681  | 43.36%  | 35,012 | 38.86%  | 36,294  | 43.21%  | 114,987 | 41.84%  |
| 4     | 16,139  | 16.02%  | 10,854 | 12.05%  | 8,344   | 9.93%   | 35,337  | 12.86%  |
| 5     | 201     | 0.20%   | 335    | 0.37%   | 238     | 0.28%   | 774     | 0.28%   |
| 6     | 27      | 0.03%   | 8      | 0.01%   | 23      | 0.03%   | 58      | 0.02%   |
| Total | 100,736 | 100.00% | 90,104 | 100.00% | 83,999  | 100.00% | 274,839 | 100.00% |

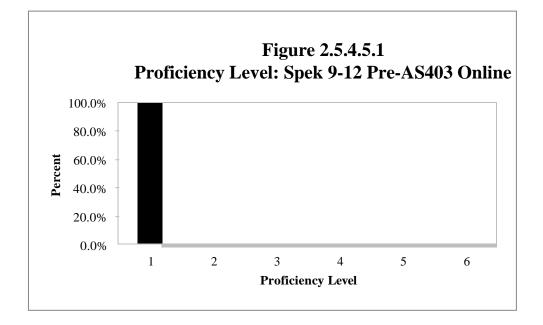
Proficiency Level Distribution: Spek 6-8 S403 Online



## 2.5.4.5 Grades 9–12

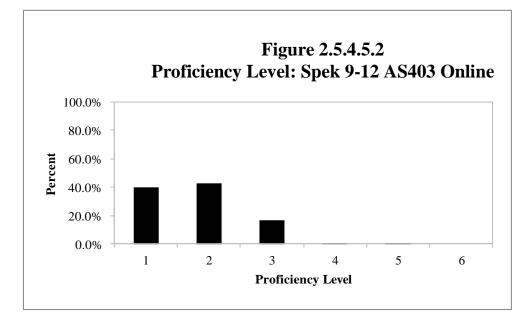
Proficiency Level Distribution: Spek 9-12 Pre-A S403 Online

|       | Grade 9 |         | Grade 10 |         | Grade 11 |         | Grade 12 |         | Total  |         |
|-------|---------|---------|----------|---------|----------|---------|----------|---------|--------|---------|
| Level | Count   | Percent | Count    | Percent | Count    | Percent | Count    | Percent | Count  | Percent |
| 1     | 5,440   | 100.00% | 6,455    | 100.00% | 6,209    | 100.00% | 4,998    | 100.00% | 23,102 | 100.00% |
| Total | 5,440   | 100.00% | 6,455    | 100.00% | 6,209    | 100.00% | 4,998    | 100.00% | 23,102 | 100.00% |



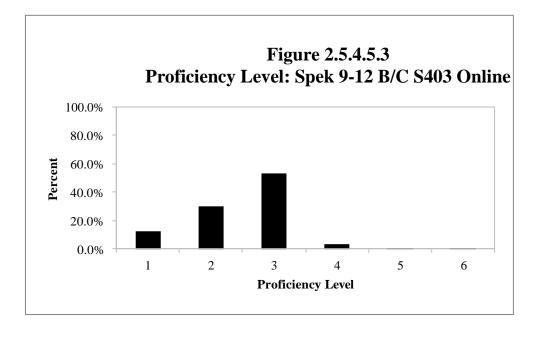
|       | Grade 9 |         | Grade 10 |         | Grade 11 |         | Gra    | de 12   | Τα      | otal    |
|-------|---------|---------|----------|---------|----------|---------|--------|---------|---------|---------|
| Level | Count   | Percent | Count    | Percent | Count    | Percent | Count  | Percent | Count   | Percent |
| 1     | 21,729  | 39.88%  | 10,723   | 33.68%  | 7,924    | 56.43%  | 8,920  | 38.25%  | 49,296  | 39.85%  |
| 2     | 24,624  | 45.19%  | 15,861   | 49.81%  | 4,199    | 29.91%  | 7,929  | 34.00%  | 52,613  | 42.54%  |
| 3     | 7,564   | 13.88%  | 5,184    | 16.28%  | 1,904    | 13.56%  | 6,350  | 27.23%  | 21,002  | 16.98%  |
| 4     | 574     | 1.05%   | 72       | 0.23%   | 14       | 0.10%   | 117    | 0.50%   | 777     | 0.63%   |
| 5     | 1       | 0.00%   | 0        | 0.00%   | 0        | 0.00%   | 2      | 0.01%   | 3       | 0.00%   |
| 6     | 0       | 0.00%   | 0        | 0.00%   | 0        | 0.00%   | 0      | 0.00%   | 0       | 0.00%   |
| Total | 54,492  | 100.00% | 31,840   | 100.00% | 14,041   | 100.00% | 23,318 | 100.00% | 123,691 | 100.00% |

Table 2.5.4.5.2Proficiency Level Distribution: Spek 9-12 A S403 Online



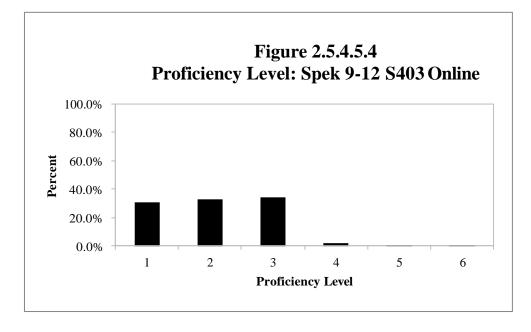
|       | Grade 9 |         | Grade 10 |         | Grade 11 |         | Gra    | de 12   | To      | otal    |
|-------|---------|---------|----------|---------|----------|---------|--------|---------|---------|---------|
| Level | Count   | Percent | Count    | Percent | Count    | Percent | Count  | Percent | Count   | Percent |
| 1     | 3,074   | 8.28%   | 5,586    | 13.46%  | 7,927    | 15.87%  | 2,833  | 11.84%  | 19,420  | 12.73%  |
| 2     | 8,496   | 22.88%  | 14,091   | 33.95%  | 16,676   | 33.39%  | 6,455  | 26.98%  | 45,718  | 29.98%  |
| 3     | 22,978  | 61.87%  | 20,223   | 48.72%  | 24,381   | 48.81%  | 13,973 | 58.41%  | 81,555  | 53.47%  |
| 4     | 2,554   | 6.88%   | 1,589    | 3.83%   | 941      | 1.88%   | 642    | 2.68%   | 5,726   | 3.75%   |
| 5     | 36      | 0.10%   | 16       | 0.04%   | 19       | 0.04%   | 12     | 0.05%   | 83      | 0.05%   |
| 6     | 1       | 0.00%   | 2        | 0.00%   | 4        | 0.01%   | 7      | 0.03%   | 14      | 0.01%   |
| Total | 37,139  | 100.00% | 41,507   | 100.00% | 49,948   | 100.00% | 23,922 | 100.00% | 152,516 | 100.00% |

Table 2.5.4.5.3 Proficiency Level Distribution: Spek 9-12 B/C S403 Online



|       | Grade 9 |         | Grade 10 |         | Grade 11 |         | Gra    | de 12   | То      | otal    |
|-------|---------|---------|----------|---------|----------|---------|--------|---------|---------|---------|
| Level | Count   | Percent | Count    | Percent | Count    | Percent | Count  | Percent | Count   | Percent |
| 1     | 30,243  | 31.16%  | 22,764   | 28.53%  | 22,060   | 31.43%  | 16,751 | 32.07%  | 91,818  | 30.68%  |
| 2     | 33,120  | 34.12%  | 29,952   | 37.53%  | 20,875   | 29.74%  | 14,384 | 27.54%  | 98,331  | 32.85%  |
| 3     | 30,542  | 31.46%  | 25,407   | 31.84%  | 26,285   | 37.44%  | 20,323 | 38.90%  | 102,557 | 34.26%  |
| 4     | 3,128   | 3.22%   | 1,661    | 2.08%   | 955      | 1.36%   | 759    | 1.45%   | 6,503   | 2.17%   |
| 5     | 37      | 0.04%   | 16       | 0.02%   | 19       | 0.03%   | 14     | 0.03%   | 86      | 0.03%   |
| 6     | 1       | 0.00%   | 2        | 0.00%   | 4        | 0.01%   | 7      | 0.01%   | 14      | 0.00%   |
| Total | 97,071  | 100.00% | 79,802   | 100.00% | 70,198   | 100.00% | 52,238 | 100.00% | 299,309 | 100.00% |

Table 2.5.4.5.4Proficiency Level Distribution: Spek 9-12 S403 Online



## 2.6 Raw Score to Scale Score to Proficiency Level Conversion for Speaking and Writing

This section presents raw score to scale score conversions and associated proficiency levels for the test forms for Speaking and Writing.

The first column shows all possible raw scores. The following column shows the corresponding scale score. The next column shows the conditional standard error of measurement (CSEM) in the metric of the scale score, multiplied by 1.96. This is the confidence band as reported on students' score reports. Following the CSEM, columns provide the proficiency level interpretation for each grade in the grade-level cluster.

Note that raw scores of zero are truncated where necessary so that the lowest scale score given is the scale score corresponding to a proficiency level score of 1.0.

## 2.6.1 Listening

The ACCESS Online Listening test is a multistage adaptive assessment. As students do not all take the same set of items in the test, raw to scale score conversion tables are not presented.

## 2.6.2 Reading

The ACCESS Online Reading test is a multistage adaptive assessment. As students do not all take the same set of items in the test, raw to scale score conversion tables are not presented.

# 2.6.3 Writing

Table 2.6.3.1.1

Raw Score to Scale Score to Proficiency Level Conversion: Writ 1 A S403 Online

| Raw   | Scale | CSEM x |           | Raw   | Scale | CSEM x |           |
|-------|-------|--------|-----------|-------|-------|--------|-----------|
| Score | Score | 1.96   | PL for G1 | Score | Score | 1.96   | PL for G1 |
| 0     | 111   | 84     | 1.0       | 34    | 380   | 25     | 4.9       |
| 1     | 132   | 76     | 1.1       | 35    | 387   | 26     | 5.2       |
| 2     | 173   | 52     | 1.4       | 36    | 394   | 28     | 5.5       |
| 3     | 191   | 36     | 1.6       | 37    | 403   | 31     | 5.9       |
| 4     | 202   | 28     | 1.7       | 38    | 414   | 37     | 6.0       |
| 5     | 209   | 24     | 1.7       | 39    | 432   | 51     | 6.0       |
| 6     | 214   | 22     | 1.8       | 40    | 464   | 95     | 6.0       |
| 7     | 219   | 20     | 1.8       |       |       |        |           |
| 8     | 223   | 20     | 1.8       |       |       |        |           |
| 9     | 227   | 19     | 1.9       |       |       |        |           |
| 10    | 230   | 19     | 1.9       |       |       |        |           |
| 11    | 234   | 19     | 1.9       |       |       |        |           |
| 12    | 238   | 20     | 2.0       |       |       |        |           |
| 13    | 242   | 20     | 2.1       |       |       |        |           |
| 14    | 246   | 21     | 2.2       |       |       |        |           |
| 15    | 251   | 23     | 2.3       |       |       |        |           |
| 16    | 257   | 24     | 2.5       |       |       |        |           |
| 17    | 263   | 26     | 2.6       |       |       |        |           |
| 18    | 270   | 27     | 2.8       |       |       |        |           |
| 19    | 277   | 28     | 3.0       |       |       |        |           |
| 20    | 285   | 28     | 3.1       |       |       |        |           |
| 21    | 293   | 28     | 3.2       |       |       |        |           |
| 22    | 301   | 27     | 3.4       |       |       |        |           |
| 23    | 308   | 27     | 3.5       |       |       |        |           |
| 24    | 315   | 26     | 3.6       |       |       |        |           |
| 25    | 322   | 26     | 3.7       |       |       |        |           |
| 26    | 329   | 26     | 3.8       |       |       |        |           |
| 27    | 335   | 26     | 3.9       |       |       |        |           |
| 28    | 342   | 26     | 4.1       |       |       |        |           |
| 29    | 349   | 26     | 4.2       |       |       |        |           |
| 30    | 355   | 25     | 4.4       |       |       |        |           |
| 31    | 362   | 25     | 4.5       |       |       |        |           |
| 32    | 368   | 25     | 4.6       |       |       |        |           |
| 33    | 374   | 25     | 4.8       |       |       |        |           |

| Raw   | to Scale Score Scale | CSEM x |           | Raw   | Scale | CSEM x |           |
|-------|----------------------|--------|-----------|-------|-------|--------|-----------|
| Score | Score                | 1.96   | PL for G1 | Score | Score | 1.96   | PL for G1 |
| 0     | 111                  | 188    | 1.0       | 34    | 327   | 24     | 3.8       |
| 1     | 174                  | 47     | 1.4       | 35    | 333   | 23     | 3.9       |
| 2     | 189                  | 32     | 1.6       | 36    | 338   | 23     | 4.0       |
| 3     | 197                  | 26     | 1.6       | 37    | 344   | 22     | 4.1       |
| 4     | 203                  | 23     | 1.7       | 38    | 349   | 22     | 4.2       |
| 5     | 207                  | 21     | 1.7       | 39    | 354   | 22     | 4.3       |
| 6     | 211                  | 19     | 1.7       | 40    | 358   | 21     | 4.4       |
| 7     | 215                  | 18     | 1.8       | 41    | 363   | 21     | 4.5       |
| 8     | 218                  | 18     | 1.8       | 42    | 367   | 21     | 4.6       |
| 9     | 221                  | 17     | 1.8       | 43    | 372   | 21     | 4.7       |
| 10    | 224                  | 17     | 1.8       | 44    | 376   | 21     | 4.8       |
| 11    | 227                  | 17     | 1.9       | 45    | 381   | 21     | 4.9       |
| 12    | 230                  | 17     | 1.9       | 46    | 386   | 22     | 5.1       |
| 13    | 233                  | 17     | 1.9       | 47    | 390   | 22     | 5.3       |
| 14    | 236                  | 17     | 1.9       | 48    | 396   | 23     | 5.6       |
| 15    | 239                  | 17     | 2.0       | 49    | 401   | 25     | 5.8       |
| 16    | 242                  | 17     | 2.1       | 50    | 408   | 27     | 6.0       |
| 17    | 245                  | 17     | 2.1       | 51    | 416   | 30     | 6.0       |
| 18    | 248                  | 18     | 2.2       | 52    | 427   | 36     | 6.0       |
| 19    | 251                  | 18     | 2.3       | 53    | 445   | 51     | 6.0       |
| 20    | 254                  | 19     | 2.4       | 54    | 477   | 95     | 6.0       |
| 21    | 258                  | 19     | 2.5       |       |       |        |           |
| 22    | 262                  | 20     | 2.6       |       |       |        |           |
| 23    | 267                  | 21     | 2.7       |       |       |        |           |
| 24    | 271                  | 22     | 2.8       |       |       |        |           |
| 25    | 276                  | 22     | 3.0       |       |       |        |           |
| 26    | 281                  | 23     | 3.0       |       |       |        |           |
| 27    | 287                  | 23     | 3.1       |       |       |        |           |
| 28    | 292                  | 24     | 3.2       |       |       |        |           |
| 29    | 298                  | 24     | 3.3       |       |       |        |           |
| 30    | 304                  | 24     | 3.4       |       |       |        |           |
| 31    | 310                  | 24     | 3.5       |       |       |        |           |
| 32    | 316                  | 24     | 3.6       |       |       |        |           |
| 33    | 322                  | 24     | 3.7       |       |       |        |           |

Raw Score to Scale Score to Proficiency Level Conversion: Writ 1 B/C S403 Online

Table 2.6.3.1.2

Table 2.6.3.2.1

| Raw   | Scale | CSEM x |           |           |
|-------|-------|--------|-----------|-----------|
| Score | Score | 1.96   | PL for G2 | PL for G3 |
| 0     | 133   | 217    | 1.0       | 1.0       |
| 1     | 201   | 45     | 1.6       | 1.5       |
| 2     | 214   | 32     | 1.7       | 1.7       |
| 3     | 223   | 26     | 1.8       | 1.7       |
| 4     | 229   | 24     | 1.8       | 1.8       |
| 5     | 234   | 23     | 1.9       | 1.8       |
| 6     | 239   | 22     | 1.9       | 1.9       |
| 7     | 244   | 23     | 2.0       | 1.9       |
| 8     | 250   | 23     | 2.2       | 2.0       |
| 9     | 256   | 25     | 2.3       | 2.2       |
| 10    | 263   | 27     | 2.5       | 2.4       |
| 11    | 270   | 29     | 2.7       | 2.6       |
| 12    | 280   | 31     | 3.0       | 2.9       |
| 13    | 290   | 33     | 3.1       | 3.1       |
| 14    | 301   | 34     | 3.3       | 3.2       |
| 15    | 313   | 35     | 3.5       | 3.4       |
| 16    | 325   | 34     | 3.7       | 3.6       |
| 17    | 337   | 34     | 3.9       | 3.8       |
| 18    | 348   | 33     | 4.1       | 4.0       |
| 19    | 358   | 31     | 4.3       | 4.2       |
| 20    | 368   | 30     | 4.5       | 4.4       |
| 21    | 377   | 29     | 4.7       | 4.6       |
| 22    | 385   | 29     | 4.9       | 4.8       |
| 23    | 394   | 30     | 5.2       | 5.0       |
| 24    | 404   | 32     | 5.6       | 5.4       |
| 25    | 416   | 37     | 6.0       | 5.9       |
| 26    | 434   | 51     | 6.0       | 6.0       |
| 27    | 466   | 94     | 6.0       | 6.0       |

Raw Score to Scale Score to Proficiency Level Conversion: Writ 2-3 A S403 Online

| Raw   | Scale | CSEM x |           |           | Raw   | Scale | CSEM x |           |           |
|-------|-------|--------|-----------|-----------|-------|-------|--------|-----------|-----------|
| Score | Score | 1.96   | PL for G2 | PL for G3 | Score | Score | 1.96   | PL for G2 | PL for G3 |
| 0     | 133   | 223    | 1.0       | 1.0       | 34    | 356   | 24     | 4.3       | 4.2       |
| 1     | 205   | 47     | 1.6       | 1.6       | 35    | 362   | 23     | 4.4       | 4.3       |
| 2     | 220   | 32     | 1.8       | 1.7       | 36    | 367   | 23     | 4.5       | 4.4       |
| 3     | 228   | 26     | 1.8       | 1.8       | 37    | 373   | 23     | 4.6       | 4.5       |
| 4     | 234   | 22     | 1.9       | 1.8       | 38    | 378   | 22     | 4.7       | 4.6       |
| 5     | 238   | 20     | 1.9       | 1.9       | 39    | 382   | 22     | 4.8       | 4.7       |
| 6     | 242   | 18     | 2.0       | 1.9       | 40    | 387   | 21     | 4.9       | 4.8       |
| 7     | 245   | 17     | 2.0       | 1.9       | 41    | 392   | 21     | 5.1       | 4.9       |
| 8     | 248   | 17     | 2.1       | 2.0       | 42    | 396   | 21     | 5.3       | 5.0       |
| 9     | 251   | 16     | 2.2       | 2.1       | 43    | 400   | 21     | 5.5       | 5.2       |
| 10    | 254   | 16     | 2.3       | 2.1       | 44    | 405   | 21     | 5.7       | 5.4       |
| 11    | 256   | 16     | 2.3       | 2.2       | 45    | 409   | 21     | 5.9       | 5.6       |
| 12    | 259   | 16     | 2.4       | 2.3       | 46    | 413   | 21     | 6.0       | 5.7       |
| 13    | 261   | 16     | 2.5       | 2.3       | 47    | 418   | 22     | 6.0       | 6.0       |
| 14    | 264   | 16     | 2.5       | 2.4       | 48    | 423   | 23     | 6.0       | 6.0       |
| 15    | 266   | 16     | 2.6       | 2.5       | 49    | 429   | 24     | 6.0       | 6.0       |
| 16    | 269   | 16     | 2.7       | 2.6       | 50    | 435   | 26     | 6.0       | 6.0       |
| 17    | 272   | 17     | 2.8       | 2.6       | 51    | 443   | 30     | 6.0       | 6.0       |
| 18    | 275   | 17     | 2.8       | 2.7       | 52    | 453   | 36     | 6.0       | 6.0       |
| 19    | 278   | 18     | 2.9       | 2.8       | 53    | 471   | 51     | 6.0       | 6.0       |
| 20    | 282   | 19     | 3.0       | 2.9       | 54    | 503   | 95     | 6.0       | 6.0       |
| 21    | 286   | 20     | 3.1       | 3.0       |       |       |        |           |           |
| 22    | 290   | 21     | 3.1       | 3.1       |       |       |        |           |           |
| 23    | 294   | 21     | 3.2       | 3.1       |       |       |        |           |           |
| 24    | 299   | 22     | 3.3       | 3.2       |       |       |        |           |           |
| 25    | 304   | 23     | 3.4       | 3.3       |       |       |        |           |           |
| 26    | 309   | 23     | 3.4       | 3.4       |       |       |        |           |           |
| 27    | 315   | 24     | 3.5       | 3.5       |       |       |        |           |           |
| 28    | 321   | 24     | 3.6       | 3.6       |       |       |        |           |           |
| 29    | 327   | 24     | 3.7       | 3.6       |       |       |        |           |           |
| 30    | 333   | 24     | 3.8       | 3.7       |       |       |        |           |           |
| 31    | 338   | 24     | 3.9       | 3.8       |       |       |        |           |           |
| 32    | 344   | 24     | 4.0       | 3.9       |       |       |        |           |           |
| 33    | 350   | 24     | 4.1       | 4.0       |       |       |        |           |           |

Raw Score to Scale Score to Proficiency Level Conversion: Writ 2-3 B/C S403 Online

Table 2.6.3.2.2

## Table 2.6.3.3.1

|       |       |        | Ť         |           |
|-------|-------|--------|-----------|-----------|
| Raw   | Scale | CSEM x |           |           |
| Score | Score | 1.96   | PL for G4 | PL for G5 |
| 0     | 155   | 243    | 1.0       | 1.0       |
| 1     | 229   | 45     | 1.6       | 1.6       |
| 2     | 242   | 32     | 1.8       | 1.7       |
| 3     | 251   | 26     | 1.8       | 1.8       |
| 4     | 257   | 24     | 1.9       | 1.9       |
| 5     | 262   | 23     | 1.9       | 1.9       |
| 6     | 268   | 22     | 2.0       | 2.0       |
| 7     | 273   | 23     | 2.3       | 2.2       |
| 8     | 278   | 23     | 2.5       | 2.4       |
| 9     | 284   | 25     | 2.8       | 2.6       |
| 10    | 291   | 27     | 3.0       | 2.9       |
| 11    | 299   | 29     | 3.1       | 3.0       |
| 12    | 308   | 31     | 3.3       | 3.2       |
| 13    | 318   | 33     | 3.4       | 3.3       |
| 14    | 330   | 34     | 3.6       | 3.5       |
| 15    | 341   | 35     | 3.8       | 3.7       |
| 16    | 353   | 34     | 4.0       | 3.9       |
| 17    | 365   | 34     | 4.2       | 4.1       |
| 18    | 376   | 33     | 4.5       | 4.3       |
| 19    | 386   | 31     | 4.7       | 4.5       |
| 20    | 396   | 30     | 4.9       | 4.7       |
| 21    | 405   | 29     | 5.1       | 4.9       |
| 22    | 414   | 29     | 5.5       | 5.2       |
| 23    | 422   | 30     | 5.8       | 5.5       |
| 24    | 432   | 32     | 6.0       | 5.9       |
| 25    | 444   | 37     | 6.0       | 6.0       |
| 26    | 463   | 51     | 6.0       | 6.0       |
| 27    | 494   | 94     | 6.0       | 6.0       |

Raw Score to Scale Score to Proficiency Level Conversion: Writ 4-5 A S403 Online

Note: Score reports provided to students include the CSEM value multiplied by 1.96.

| Raw   | Scale | CSEM x |     |           | Raw   | Scale | CSEM x |           |     |
|-------|-------|--------|-----|-----------|-------|-------|--------|-----------|-----|
| Score | Score | 1.96   |     | PL for G5 | Score | Score | 1.96   | PL for G4 |     |
| 0     | 155   | 256    | 1.0 | 1.0       | 34    | 386   | 24     | 4.7       | 4.5 |
| 1     | 234   | 47     | 1.7 | 1.7       | 35    | 392   | 23     | 4.8       | 4.7 |
| 2     | 249   | 32     | 1.8 | 1.8       | 36    | 397   | 23     | 4.9       | 4.8 |
| 3     | 257   | 26     | 1.9 | 1.9       | 37    | 403   | 23     | 5.0       | 4.9 |
| 4     | 263   | 23     | 1.9 | 1.9       | 38    | 408   | 22     | 5.2       | 5.0 |
| 5     | 267   | 20     | 2.0 | 2.0       | 39    | 413   | 22     | 5.5       | 5.2 |
| 6     | 271   | 19     | 2.2 | 2.1       | 40    | 417   | 21     | 5.6       | 5.3 |
| 7     | 275   | 18     | 2.4 | 2.3       | 41    | 422   | 21     | 5.8       | 5.5 |
| 8     | 278   | 17     | 2.5 | 2.4       | 42    | 426   | 21     | 6.0       | 5.7 |
| 9     | 281   | 17     | 2.6 | 2.5       | 43    | 431   | 21     | 6.0       | 5.9 |
| 10    | 284   | 16     | 2.8 | 2.6       | 44    | 435   | 21     | 6.0       | 6.0 |
| 11    | 287   | 16     | 2.9 | 2.7       | 45    | 440   | 21     | 6.0       | 6.0 |
| 12    | 289   | 16     | 3.0 | 2.8       | 46    | 444   | 21     | 6.0       | 6.0 |
| 13    | 292   | 16     | 3.0 | 2.9       | 47    | 449   | 22     | 6.0       | 6.0 |
| 14    | 294   | 16     | 3.0 | 3.0       | 48    | 454   | 23     | 6.0       | 6.0 |
| 15    | 297   | 16     | 3.1 | 3.0       | 49    | 460   | 24     | 6.0       | 6.0 |
| 16    | 300   | 17     | 3.1 | 3.1       | 50    | 466   | 26     | 6.0       | 6.0 |
| 17    | 303   | 17     | 3.2 | 3.1       | 51    | 474   | 30     | 6.0       | 6.0 |
| 18    | 306   | 17     | 3.2 | 3.2       | 52    | 485   | 36     | 6.0       | 6.0 |
| 19    | 309   | 18     | 3.3 | 3.2       | 53    | 503   | 51     | 6.0       | 6.0 |
| 20    | 313   | 19     | 3.3 | 3.3       | 54    | 534   | 95     | 6.0       | 6.0 |
| 21    | 316   | 20     | 3.4 | 3.3       |       |       |        |           |     |
| 22    | 320   | 20     | 3.5 | 3.4       |       |       |        |           |     |
| 23    | 325   | 21     | 3.5 | 3.5       |       |       |        |           |     |
| 24    | 330   | 22     | 3.6 | 3.5       |       |       |        |           |     |
| 25    | 335   | 23     | 3.7 | 3.6       |       |       |        |           |     |
| 26    | 340   | 23     | 3.8 | 3.7       |       |       |        |           |     |
| 27    | 345   | 24     | 3.9 | 3.8       |       |       |        |           |     |
| 28    | 351   | 24     | 4.0 | 3.9       |       |       |        |           |     |
| 29    | 357   | 24     | 4.1 | 4.0       |       |       |        |           |     |
| 30    | 363   | 24     | 4.2 | 4.1       |       |       |        |           |     |
| 31    | 369   | 24     | 4.3 | 4.2       |       |       |        |           |     |
| 32    | 375   | 24     | 4.4 | 4.3       |       |       |        |           |     |
| 33    | 381   | 24     | 4.6 | 4.4       |       |       |        |           |     |

Table 2.6.3.3.2Raw Score to Scale Score to Proficiency Level Conversion: Writ 4-5 B/C S403 Online

## Table 2.6.3.4.1

| Raw   | Scale | CSEM x |           |           | 6-8 A S403 O |
|-------|-------|--------|-----------|-----------|--------------|
| Score | Score | 1.96   | PL for G6 | PL for G7 | PL for G8    |
| 0     | 188   | 101    | 1.2       | 1.1       | 1.0          |
| 1     | 219   | 45     | 1.5       | 1.4       | 1.3          |
| 2     | 233   | 32     | 1.6       | 1.5       | 1.4          |
| 3     | 242   | 27     | 1.7       | 1.6       | 1.5          |
| 4     | 249   | 25     | 1.8       | 1.7       | 1.6          |
| 5     | 255   | 24     | 1.8       | 1.8       | 1.7          |
| 6     | 261   | 23     | 1.9       | 1.8       | 1.7          |
| 7     | 266   | 24     | 1.9       | 1.9       | 1.8          |
| 8     | 272   | 24     | 2.1       | 1.9       | 1.9          |
| 9     | 278   | 25     | 2.3       | 2.1       | 1.9          |
| 10    | 285   | 27     | 2.5       | 2.3       | 2.1          |
| 11    | 293   | 29     | 2.8       | 2.6       | 2.4          |
| 12    | 302   | 31     | 3.0       | 2.9       | 2.7          |
| 13    | 312   | 33     | 3.2       | 3.1       | 3.0          |
| 14    | 323   | 34     | 3.3       | 3.2       | 3.1          |
| 15    | 335   | 34     | 3.5       | 3.4       | 3.3          |
| 16    | 346   | 34     | 3.7       | 3.6       | 3.5          |
| 17    | 358   | 34     | 3.9       | 3.8       | 3.7          |
| 18    | 369   | 33     | 4.1       | 4.0       | 3.9          |
| 19    | 379   | 31     | 4.3       | 4.2       | 4.1          |
| 20    | 389   | 30     | 4.5       | 4.4       | 4.3          |
| 21    | 398   | 30     | 4.7       | 4.5       | 4.5          |
| 22    | 407   | 30     | 4.8       | 4.7       | 4.6          |
| 23    | 416   | 31     | 5.1       | 4.9       | 4.8          |
| 24    | 426   | 33     | 5.4       | 5.2       | 5.0          |
| 25    | 438   | 38     | 5.8       | 5.6       | 5.4          |
| 26    | 457   | 52     | 6.0       | 6.0       | 5.9          |
| 27    | 489   | 94     | 6.0       | 6.0       | 6.0          |

Raw Score to Scale Score to Proficiency Level Conversion: Writ 6-8 A S403 Online

## Table 2.6.3.4.2

| Raw   | Scale | CSEM x |           |           | 6-8B/CS403 |
|-------|-------|--------|-----------|-----------|------------|
| Score | Score | 1.96   | PL for G6 | PL for G7 | PL for G8  |
| 0     | 188   | 102    | 1.2       | 1.1       | 1.0        |
| 1     | 221   | 47     | 1.5       | 1.4       | 1.3        |
| 2     | 236   | 32     | 1.6       | 1.6       | 1.5        |
| 3     | 244   | 26     | 1.7       | 1.6       | 1.6        |
| 4     | 250   | 22     | 1.8       | 1.7       | 1.6        |
| 5     | 254   | 20     | 1.8       | 1.8       | 1.7        |
| 6     | 258   | 19     | 1.9       | 1.8       | 1.7        |
| 7     | 262   | 18     | 1.9       | 1.8       | 1.7        |
| 8     | 265   | 17     | 1.9       | 1.9       | 1.8        |
| 9     | 267   | 16     | 1.9       | 1.9       | 1.8        |
| 10    | 270   | 16     | 2.0       | 1.9       | 1.8        |
| 11    | 273   | 16     | 2.1       | 2.0       | 1.9        |
| 12    | 275   | 16     | 2.2       | 2.0       | 1.9        |
| 13    | 278   | 16     | 2.3       | 2.1       | 1.9        |
| 14    | 280   | 16     | 2.4       | 2.2       | 1.9        |
| 15    | 283   | 16     | 2.5       | 2.3       | 2.0        |
| 16    | 286   | 16     | 2.6       | 2.4       | 2.1        |
| 17    | 288   | 17     | 2.6       | 2.4       | 2.2        |
| 18    | 292   | 17     | 2.8       | 2.5       | 2.3        |
| 19    | 295   | 18     | 2.9       | 2.6       | 2.4        |
| 20    | 298   | 19     | 3.0       | 2.7       | 2.5        |
| 21    | 302   | 20     | 3.0       | 2.9       | 2.7        |
| 22    | 306   | 21     | 3.1       | 3.0       | 2.8        |
| 23    | 311   | 21     | 3.2       | 3.0       | 3.0        |
| 24    | 316   | 22     | 3.2       | 3.1       | 3.0        |
| 25    | 321   | 23     | 3.3       | 3.2       | 3.1        |
| 26    | 326   | 23     | 3.4       | 3.3       | 3.2        |
| 27    | 332   | 24     | 3.5       | 3.4       | 3.3        |
| 28    | 337   | 24     | 3.6       | 3.5       | 3.4        |
| 29    | 343   | 24     | 3.7       | 3.6       | 3.5        |
| 30    | 349   | 24     | 3.8       | 3.7       | 3.6        |
| 31    | 355   | 24     | 3.9       | 3.8       | 3.7        |
| 32    | 361   | 24     | 4.0       | 3.9       | 3.8        |
| 33    | 367   | 24     | 4.1       | 4.0       | 3.9        |

Raw Score to Scale Score to Proficiency Level Conversion: Writ 6-8 B/C S403 Online

| Raw   | Scale | CSEM x |           |           |           |
|-------|-------|--------|-----------|-----------|-----------|
| Score | Score | 1.96   | PL for G6 | PL for G7 | PL for G8 |
| 34    | 373   | 24     | 4.2       | 4.1       | 4.0       |
| 35    | 378   | 23     | 4.3       | 4.2       | 4.1       |
| 36    | 384   | 23     | 4.4       | 4.3       | 4.2       |
| 37    | 389   | 23     | 4.5       | 4.4       | 4.3       |
| 38    | 394   | 22     | 4.6       | 4.5       | 4.4       |
| 39    | 399   | 22     | 4.7       | 4.6       | 4.5       |
| 40    | 404   | 21     | 4.8       | 4.7       | 4.6       |
| 41    | 408   | 21     | 4.9       | 4.7       | 4.6       |
| 42    | 413   | 21     | 5.0       | 4.8       | 4.7       |
| 43    | 417   | 21     | 5.1       | 4.9       | 4.8       |
| 44    | 421   | 21     | 5.2       | 5.0       | 4.9       |
| 45    | 426   | 21     | 5.4       | 5.2       | 5.0       |
| 46    | 430   | 21     | 5.6       | 5.3       | 5.1       |
| 47    | 435   | 22     | 5.7       | 5.5       | 5.3       |
| 48    | 440   | 23     | 5.9       | 5.6       | 5.4       |
| 49    | 445   | 24     | 6.0       | 5.8       | 5.6       |
| 50    | 452   | 26     | 6.0       | 6.0       | 5.8       |
| 51    | 460   | 30     | 6.0       | 6.0       | 6.0       |
| 52    | 470   | 36     | 6.0       | 6.0       | 6.0       |
| 53    | 488   | 51     | 6.0       | 6.0       | 6.0       |
| 54    | 520   | 95     | 6.0       | 6.0       | 6.0       |

| Raw   | Scale | CSEM x |           |            |            |            |
|-------|-------|--------|-----------|------------|------------|------------|
| Score | Score | 1.96   | PL for G9 | PL for G10 | PL for G11 | PL for G12 |
| 0     | 232   | 72     | 1.3       | 1.2        | 1.1        | 1.0        |
| 1     | 250   | 45     | 1.5       | 1.4        | 1.3        | 1.2        |
| 2     | 264   | 32     | 1.7       | 1.6        | 1.4        | 1.3        |
| 3     | 272   | 27     | 1.8       | 1.7        | 1.5        | 1.4        |
| 4     | 279   | 24     | 1.8       | 1.7        | 1.6        | 1.5        |
| 5     | 284   | 23     | 1.9       | 1.8        | 1.7        | 1.6        |
| 6     | 290   | 23     | 2.0       | 1.9        | 1.7        | 1.6        |
| 7     | 295   | 23     | 2.2       | 1.9        | 1.8        | 1.7        |
| 8     | 300   | 24     | 2.3       | 2.0        | 1.9        | 1.7        |
| 9     | 306   | 25     | 2.5       | 2.2        | 1.9        | 1.8        |
| 10    | 313   | 27     | 2.8       | 2.5        | 2.1        | 1.9        |
| 11    | 321   | 29     | 3.0       | 2.8        | 2.4        | 2.1        |
| 12    | 330   | 31     | 3.1       | 3.0        | 2.8        | 2.4        |
| 13    | 340   | 33     | 3.3       | 3.2        | 3.0        | 2.8        |
| 14    | 352   | 34     | 3.5       | 3.4        | 3.3        | 3.1        |
| 15    | 363   | 34     | 3.7       | 3.6        | 3.5        | 3.3        |
| 16    | 375   | 34     | 3.9       | 3.8        | 3.7        | 3.5        |
| 17    | 387   | 34     | 4.1       | 4.0        | 3.9        | 3.7        |
| 18    | 398   | 33     | 4.3       | 4.2        | 4.1        | 4.0        |
| 19    | 408   | 31     | 4.5       | 4.4        | 4.3        | 4.2        |
| 20    | 418   | 30     | 4.7       | 4.6        | 4.5        | 4.4        |
| 21    | 427   | 30     | 4.9       | 4.8        | 4.7        | 4.5        |
| 22    | 436   | 30     | 5.1       | 5.0        | 4.9        | 4.7        |
| 23    | 445   | 30     | 5.3       | 5.2        | 5.0        | 4.9        |
| 24    | 454   | 33     | 5.6       | 5.4        | 5.2        | 5.1        |
| 25    | 466   | 38     | 5.9       | 5.6        | 5.5        | 5.3        |
| 26    | 485   | 51     | 6.0       | 6.0        | 5.8        | 5.7        |
| 27    | 517   | 94     | 6.0       | 6.0        | 6.0        | 6.0        |

Raw Score to Scale Score to Proficiency Level Conversion: Writ 9-12 A S403 Online

Table 2.6.3.5.1

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G9 | PL for G10 | PL for G11 | PL for G12 |
|--------------|----------------|----------------|-----------|------------|------------|------------|
| 0            | 232            | 49             | 1.3       | 1.2        | 1.1        | 1.0        |
| 1            | 234            | 47             | 1.3       | 1.2        | 1.1        | 1.0        |
| 2            | 249            | 32             | 1.5       | 1.4        | 1.3        | 1.1        |
| 3            | 257            | 26             | 1.6       | 1.5        | 1.4        | 1.2        |
| 4            | 263            | 23             | 1.7       | 1.6        | 1.4        | 1.3        |
| 5            | 267            | 21             | 1.7       | 1.6        | 1.5        | 1.4        |
| 6            | 271            | 19             | 1.8       | 1.6        | 1.5        | 1.4        |
| 7            | 275            | 18             | 1.8       | 1.7        | 1.6        | 1.5        |
| 8            | 278            | 17             | 1.8       | 1.7        | 1.6        | 1.5        |
| 9            | 281            | 17             | 1.9       | 1.8        | 1.6        | 1.5        |
| 10           | 284            | 17             | 1.9       | 1.8        | 1.7        | 1.6        |
| 11           | 287            | 16             | 1.9       | 1.8        | 1.7        | 1.6        |
| 12           | 290            | 16             | 2.0       | 1.9        | 1.7        | 1.6        |
| 13           | 292            | 16             | 2.1       | 1.9        | 1.8        | 1.6        |
| 14           | 295            | 16             | 2.2       | 1.9        | 1.8        | 1.7        |
| 15           | 298            | 16             | 2.3       | 2.0        | 1.8        | 1.7        |
| 16           | 301            | 17             | 2.4       | 2.1        | 1.9        | 1.8        |
| 17           | 304            | 17             | 2.5       | 2.2        | 1.9        | 1.8        |
| 18           | 307            | 18             | 2.6       | 2.3        | 1.9        | 1.8        |
| 19           | 310            | 18             | 2.7       | 2.4        | 2.0        | 1.9        |
| 20           | 313            | 19             | 2.8       | 2.5        | 2.1        | 1.9        |
| 21           | 317            | 20             | 2.9       | 2.6        | 2.3        | 1.9        |
| 22           | 321            | 20             | 3.0       | 2.8        | 2.4        | 2.1        |
| 23           | 326            | 21             | 3.1       | 3.0        | 2.6        | 2.3        |
| 24           | 330            | 22             | 3.1       | 3.0        | 2.8        | 2.4        |
| 25           | 335            | 23             | 3.2       | 3.1        | 3.0        | 2.6        |
| 26           | 341            | 23             | 3.3       | 3.2        | 3.1        | 2.8        |
| 27           | 346            | 23             | 3.4       | 3.3        | 3.1        | 3.0        |
| 28           | 352            | 24             | 3.5       | 3.4        | 3.3        | 3.1        |
| 29           | 358            | 24             | 3.6       | 3.5        | 3.4        | 3.2        |
| 30           | 363            | 24             | 3.7       | 3.6        | 3.5        | 3.3        |
| 31           | 369            | 24             | 3.8       | 3.7        | 3.6        | 3.4        |
| 32           | 375            | 24             | 3.9       | 3.8        | 3.7        | 3.5        |
| 33           | 381            | 24             | 4.0       | 3.9        | 3.8        | 3.6        |

Raw Score to Scale Score to Proficiency Level Conversion: Writ 9-12 B/C S403 Online

Table 2.6.3.5.2

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G9 | PL for G10 | PL for G11 | PL for G12 |
|--------------|----------------|----------------|-----------|------------|------------|------------|
| 34           | 387            | 24             | 4.1       | 4.0        | 3.9        | 3.7        |
| 35           | 392            | 23             | 4.2       | 4.1        | 4.0        | 3.8        |
| 36           | 398            | 23             | 4.3       | 4.2        | 4.1        | 4.0        |
| 37           | 403            | 23             | 4.4       | 4.3        | 4.2        | 4.1        |
| 38           | 408            | 22             | 4.5       | 4.4        | 4.3        | 4.2        |
| 39           | 413            | 22             | 4.6       | 4.5        | 4.4        | 4.3        |
| 40           | 418            | 21             | 4.7       | 4.6        | 4.5        | 4.4        |
| 41           | 422            | 21             | 4.8       | 4.7        | 4.6        | 4.4        |
| 42           | 427            | 21             | 4.9       | 4.8        | 4.7        | 4.5        |
| 43           | 431            | 21             | 5.0       | 4.9        | 4.8        | 4.6        |
| 44           | 436            | 21             | 5.1       | 5.0        | 4.9        | 4.7        |
| 45           | 440            | 21             | 5.2       | 5.0        | 4.9        | 4.8        |
| 46           | 445            | 21             | 5.3       | 5.2        | 5.0        | 4.9        |
| 47           | 450            | 22             | 5.5       | 5.3        | 5.1        | 5.0        |
| 48           | 455            | 23             | 5.6       | 5.4        | 5.2        | 5.1        |
| 49           | 460            | 24             | 5.7       | 5.5        | 5.3        | 5.2        |
| 50           | 467            | 27             | 5.9       | 5.7        | 5.5        | 5.3        |
| 51           | 475            | 30             | 6.0       | 5.9        | 5.6        | 5.5        |
| 52           | 486            | 36             | 6.0       | 6.0        | 5.9        | 5.7        |
| 53           | 504            | 51             | 6.0       | 6.0        | 6.0        | 6.0        |
| 54           | 535            | 95             | 6.0       | 6.0        | 6.0        | 6.0        |

## 2.6.4 Speaking

Table 2.6.4.1.1

Raw Score to Scale Score to Proficiency Level Conversion: Spek 1 Pre-A S403 Online

| Raw   | Scale | CSEM x |           |
|-------|-------|--------|-----------|
| Score | Score | 1.96   | PL for G1 |
| 0     | 106   | 50     | 1.0       |
| 1     | 106   | 50     | 1.0       |
| 2     | 122   | 40     | 1.1       |
| 3     | 136   | 37     | 1.3       |
| 4     | 149   | 40     | 1.4       |
| 5     | 162   | 48     | 1.5       |
| 6     | 175   | 61     | 1.6       |

Note: Score reports provided to students include the CSEM value multiplied by 1.96.

#### Table 2.6.4.1.2

Raw Score to Scale Score to Proficiency Level Conversion: Spek 1 A S403 Online

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G1 |
|--------------|----------------|----------------|-----------|
| 0            | 106            | 46             | 1.0       |
| 1            | 106            | 46             | 1.0       |
| 2            | 117            | 38             | 1.1       |
| 3            | 129            | 34             | 1.2       |
| 4            | 139            | 33             | 1.3       |
| 5            | 148            | 33             | 1.4       |
| 6            | 159            | 34             | 1.5       |
| 7            | 170            | 36             | 1.6       |
| 8            | 182            | 37             | 1.7       |
| 9            | 195            | 39             | 1.8       |
| 10           | 210            | 42             | 2.0       |
| 11           | 228            | 48             | 2.4       |
| 12           | 253            | 55             | 2.8       |
| 13           | 279            | 52             | 3.3       |
| 14           | 302            | 48             | 3.8       |
| 15           | 321            | 47             | 4.2       |
| 16           | 342            | 50             | 4.6       |
| 17           | 363            | 59             | 5.0       |
| 18           | 384            | 75             | 5.5       |

#### Table 2.6.4.1.3

Raw Score to Scale Score to Proficiency Level Conversion: Spek 1 B/C S403 Online

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G1 |
|--------------|----------------|----------------|-----------|
| 6            | 106            | 43             | 1.0       |
| 7            | 159            | 29             | 1.5       |
| 8            | 167            | 29             | 1.6       |
| 9            | 175            | 29             | 1.6       |
| 10           | 182            | 29             | 1.7       |
| 11           | 190            | 29             | 1.8       |
| 12           | 198            | 29             | 1.9       |
| 13           | 205            | 29             | 2.0       |
| 14           | 214            | 30             | 2.1       |
| 15           | 223            | 32             | 2.3       |
| 16           | 233            | 34             | 2.5       |
| 17           | 244            | 37             | 2.6       |
| 18           | 258            | 38             | 2.9       |
| 19           | 271            | 38             | 3.2       |
| 20           | 284            | 37             | 3.4       |
| 21           | 296            | 35             | 3.7       |
| 22           | 307            | 33             | 3.9       |
| 23           | 317            | 33             | 4.1       |
| 24           | 327            | 33             | 4.3       |
| 25           | 337            | 33             | 4.5       |
| 26           | 348            | 35             | 4.7       |
| 27           | 360            | 38             | 4.9       |
| 28           | 372            | 43             | 5.2       |
| 29           | 384            | 49             | 5.5       |
| 30           | 403            | 64             | 6.0       |

## Table 2.6.4.2.1

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G2 | PL for G3 |
|--------------|----------------|----------------|-----------|-----------|
| 0            | 118            | 38             | 1.0       | 1.0       |
| 1            | 118            | 38             | 1.0       | 1.0       |
| 2            | 118            | 38             | 1.0       | 1.0       |
| 3            | 127            | 37             | 1.1       | 1.0       |
| 4            | 141            | 40             | 1.2       | 1.1       |
| 5            | 155            | 49             | 1.3       | 1.3       |
| 6            | 169            | 64             | 1.5       | 1.4       |

Raw Score to Scale Score to Proficiency Level Conversion: Spek 2-3 Pre-A S403 Online

Note: Score reports provided to students include the CSEM value multiplied by 1.96.

## Table 2.6.4.2.2

| Paw Score to Scale Score to Profici  | iency Level Conversion: Spek 2-3 A S403 Online |
|--------------------------------------|--|
| Raw Scole to Scale Scole to I folici | Tency Level Conversion. Spek 2-5 A 5405 Onnie  |

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G2 | PL for G3 |
|--------------|----------------|----------------|-----------|-----------|
| 0            | 118            | 36             | 1.0       | 1.0       |
| 1            | 118            | 36             | 1.0       | 1.0       |
| 2            | 118            | 36             | 1.0       | 1.0       |
| 3            | 122            | 34             | 1.0       | 1.0       |
| 4            | 132            | 33             | 1.1       | 1.1       |
| 5            | 143            | 34             | 1.2       | 1.2       |
| 6            | 154            | 36             | 1.3       | 1.3       |
| 7            | 166            | 37             | 1.5       | 1.4       |
| 8            | 179            | 38             | 1.6       | 1.5       |
| 9            | 193            | 40             | 1.7       | 1.6       |
| 10           | 208            | 42             | 1.8       | 1.7       |
| 11           | 227            | 49             | 2.1       | 1.9       |
| 12           | 251            | 55             | 2.5       | 2.3       |
| 13           | 278            | 52             | 3.1       | 2.8       |
| 14           | 300            | 48             | 3.5       | 3.3       |
| 15           | 320            | 47             | 3.9       | 3.7       |
| 16           | 341            | 50             | 4.3       | 4.1       |
| 17           | 362            | 59             | 4.7       | 4.5       |
| 18           | 383            | 76             | 5.2       | 4.9       |

## Table 2.6.4.2.3

| Raw   | Scale | CSEM x |           | version. spek |
|-------|-------|--------|-----------|---------------|
| Score | Score | 1.96   | PL for G2 | PL for G3     |
| 6     | 118   | 33     | 1.0       | 1.0           |
| 7     | 153   | 30     | 1.3       | 1.3           |
| 8     | 161   | 31     | 1.4       | 1.3           |
| 9     | 170   | 31     | 1.5       | 1.4           |
| 10    | 179   | 30     | 1.6       | 1.5           |
| 11    | 187   | 30     | 1.6       | 1.5           |
| 12    | 196   | 30     | 1.7       | 1.6           |
| 13    | 205   | 31     | 1.8       | 1.7           |
| 14    | 213   | 32     | 1.9       | 1.8           |
| 15    | 223   | 33     | 2.0       | 1.9           |
| 16    | 233   | 34     | 2.2       | 1.9           |
| 17    | 245   | 36     | 2.4       | 2.2           |
| 18    | 257   | 37     | 2.6       | 2.4           |
| 19    | 270   | 37     | 2.9       | 2.7           |
| 20    | 282   | 36     | 3.1       | 2.9           |
| 21    | 294   | 35     | 3.4       | 3.2           |
| 22    | 305   | 34     | 3.6       | 3.4           |
| 23    | 315   | 34     | 3.8       | 3.6           |
| 24    | 326   | 34     | 4.0       | 3.8           |
| 25    | 337   | 34     | 4.2       | 4.0           |
| 26    | 348   | 36     | 4.5       | 4.2           |
| 27    | 361   | 40     | 4.7       | 4.5           |
| 28    | 374   | 44     | 5.0       | 4.7           |
| 29    | 387   | 51     | 5.3       | 5.0           |
| 30    | 425   | 85     | 6.0       | 6.0           |

Raw Score to Scale Score to Proficiency Level Conversion: Spek 2-3 B/C S403 Online

## Table 2.6.4.3.1

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G4 | PL for G5 |
|--------------|----------------|----------------|-----------|-----------|
| 0            | 130            | 46             | 1.0       | 1.0       |
| 1            | 130            | 46             | 1.0       | 1.0       |
| 2            | 141            | 40             | 1.1       | 1.0       |
| 3            | 155            | 38             | 1.2       | 1.1       |
| 4            | 168            | 40             | 1.3       | 1.2       |
| 5            | 181            | 48             | 1.4       | 1.3       |
| 6            | 194            | 60             | 1.5       | 1.5       |

Raw Score to Scale Score to Proficiency Level Conversion: Spek 4-5 Pre-A S403 Online

Note: Score reports provided to students include the CSEM value multiplied by 1.96.

## Table 2.6.4.3.2

| Denne Constant Contractor Durch  | ficiency Level Conversion: Spek 4-5 A S403 Online |
|----------------------------------|---|
| Raw Score to Scale Score to Prot | TICIENCY LEVELL ONVERSION. NDEK 4-5 A SAUS UNLINE |
| Ruw beole to beale beole to 110  | ficiency Devel Conversion. Spec - 5 11 5-05 Onnie |

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G4 | PL for G5 |
|--------------|----------------|----------------|-----------|-----------|
| 0            | 130            | 44             | 1.0       | 1.0       |
| 1            | 130            | 44             | 1.0       | 1.0       |
| 2            | 138            | 40             | 1.1       | 1.0       |
| 3            | 151            | 36             | 1.2       | 1.1       |
| 4            | 162            | 35             | 1.3       | 1.2       |
| 5            | 174            | 37             | 1.4       | 1.3       |
| 6            | 187            | 40             | 1.5       | 1.4       |
| 7            | 202            | 42             | 1.6       | 1.5       |
| 8            | 218            | 42             | 1.7       | 1.6       |
| 9            | 234            | 42             | 1.9       | 1.8       |
| 10           | 251            | 44             | 2.1       | 1.9       |
| 11           | 271            | 49             | 2.5       | 2.2       |
| 12           | 295            | 53             | 3.0       | 2.8       |
| 13           | 320            | 52             | 3.5       | 3.3       |
| 14           | 343            | 48             | 4.0       | 3.8       |
| 15           | 364            | 48             | 4.4       | 4.2       |
| 16           | 385            | 51             | 4.7       | 4.6       |
| 17           | 406            | 60             | 5.2       | 4.9       |
| 18           | 427            | 75             | 5.7       | 5.5       |

## Table 2.6.4.3.3

| Raw   | Scale | CSEM x         |           |           |
|-------|-------|----------------|-----------|-----------|
| Score | Scale | CSEM X<br>1.96 | PL for G4 | PL for G5 |
| 6     | 130   | 43 1.0         |           | 1.0       |
| 7     | 194   | 36             | 1.5       | 1.5       |
| 8     | 206   | 36             | 1.6       | 1.5       |
| 9     | 217   | 34             | 1.7       | 1.6       |
| 10    | 227   | 32             | 1.8       | 1.7       |
| 11    | 236   | 32             | 1.9       | 1.8       |
| 12    | 245   | 31             | 1.9       | 1.8       |
| 13    | 254   | 31             | 2.1       | 1.9       |
| 14    | 263   | 32             | 2.3       | 2.1       |
| 15    | 272   | 33             | 2.5       | 2.3       |
| 16    | 282   | 34             | 2.7       | 2.5       |
| 17    | 294   | 36             | 3.0       | 2.8       |
| 18    | 306   | 37             | 3.2       | 3.0       |
| 19    | 319   | 37             | 3.5       | 3.3       |
| 20    | 332   | 37             | 3.7       | 3.6       |
| 21    | 344   | 35             | 4.0       | 3.8       |
| 22    | 355   | 34             | 4.2       | 4.0       |
| 23    | 365   | 34             | 4.4       | 4.2       |
| 24    | 376   | 34             | 4.6       | 4.4       |
| 25    | 387   | 34             | 4.8       | 4.6       |
| 26    | 398   | 36             | 5.0       | 4.8       |
| 27    | 411   | 39             | 5.3       | 5.1       |
| 28    | 424   | 44             | 5.7       | 5.4       |
| 29    | 437   | 51             | 6.0       | 5.8       |
| 30    | 450   | 60             | 6.0       | 6.0       |

Raw Score to Scale Score to Proficiency Level Conversion: Spek 4-5 B/C S403 Online

## Table 2.6.4.4.1

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G6 | PL for G7 | PL for G8 |
|--------------|----------------|----------------|-----------|-----------|-----------|
| 0            | 148            | 40             | 1.0       | 1.0       | 1.0       |
| 1            | 148            | 40             | 1.0       | 1.0       | 1.0       |
| 2            | 148            | 40             | 1.0       | 1.0       | 1.0       |
| 3            | 159            | 38             | 1.1       | 1.1       | 1.0       |
| 4            | 173            | 41             | 1.2       | 1.2       | 1.1       |
| 5            | 187            | 49             | 1.3       | 1.3       | 1.2       |
| 6            | 201            | 63             | 1.4       | 1.4       | 1.3       |

Raw Score to Scale Score to Proficiency Level Conversion: Spek 6-8 Pre-A S403 Online

Note: Score reports provided to students include the CSEM value multiplied by 1.96.

## Table 2.6.4.4.2

| Deres Constant Contractor Des Constant   | v Level Conversion: Spek 6-8 A S403 Online |
|--|--|
| Raw Score to Scale Score to Proficiency  | V Level Conversion. Nnek n-8 A N4U3 Unline |
| Ruw Scole to Scule Scole to I follololle | y Level Conversion. Spek 6 6 71 5105 Onnie |

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | DI for C( | DI for C7 | PI for C8 |
|--------------|----------------|----------------|-----------|-----------|-----------|
|              |                |                |           | PL for G7 |           |
| 0            | 148            | 38             | 1.0       | 1.0       | 1.0       |
| 1            | 148            | 38             | 1.0       | 1.0       | 1.0       |
| 2            | 148            | 38             | 1.0       | 1.0       | 1.0       |
| 3            | 156            | 37             | 1.1       | 1.1       | 1.0       |
| 4            | 168            | 37             | 1.2       | 1.1       | 1.1       |
| 5            | 181            | 40             | 1.3       | 1.2       | 1.2       |
| 6            | 197            | 44             | 1.4       | 1.4       | 1.3       |
| 7            | 215            | 44             | 1.5       | 1.5       | 1.4       |
| 8            | 232            | 42             | 1.7       | 1.6       | 1.6       |
| 9            | 248            | 41             | 1.8       | 1.7       | 1.7       |
| 10           | 264            | 44             | 1.9       | 1.9       | 1.8       |
| 11           | 283            | 49             | 2.3       | 2.1       | 1.9       |
| 12           | 308            | 55             | 2.9       | 2.7       | 2.6       |
| 13           | 335            | 52             | 3.5       | 3.3       | 3.2       |
| 14           | 358            | 48             | 3.9       | 3.7       | 3.6       |
| 15           | 377            | 47             | 4.2       | 4.1       | 4.0       |
| 16           | 398            | 50             | 4.6       | 4.5       | 4.3       |
| 17           | 419            | 59             | 5.0       | 4.8       | 4.7       |
| 18           | 440            | 75             | 5.6       | 5.4       | 5.2       |

## Table 2.6.4.4.3

| D            | G 1            | COEM           |           |           |           |
|--------------|----------------|----------------|-----------|-----------|-----------|
| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G6 | PL for G7 | PL for G8 |
| 6            | 148            | 38             | 1.0       | 1.0       | 1.0       |
| 7            | 208            | 40             | 1.5       | 1.4       | 1.4       |
| 8            | 221            | 37             | 1.6       | 1.5       | 1.5       |
| 9            | 233            | 34             | 1.7       | 1.6       | 1.6       |
| 10           | 244            | 33             | 1.8       | 1.7       | 1.7       |
| 11           | 253            | 32             | 1.8       | 1.8       | 1.7       |
| 12           | 262            | 31             | 1.9       | 1.8       | 1.8       |
| 13           | 271            | 31             | 2.0       | 1.9       | 1.9       |
| 14           | 280            | 32             | 2.2       | 2.0       | 1.9       |
| 15           | 290            | 33             | 2.5       | 2.3       | 2.1       |
| 16           | 300            | 34             | 2.7       | 2.5       | 2.4       |
| 17           | 312            | 36             | 3.0       | 2.8       | 2.7       |
| 18           | 324            | 37             | 3.2       | 3.1       | 3.0       |
| 19           | 337            | 37             | 3.5       | 3.3       | 3.2       |
| 20           | 350            | 36             | 3.8       | 3.6       | 3.5       |
| 21           | 362            | 35             | 4.0       | 3.8       | 3.7       |
| 22           | 372            | 34             | 4.2       | 4.0       | 3.9       |
| 23           | 383            | 34             | 4.4       | 4.2       | 4.1       |
| 24           | 394            | 34             | 4.5       | 4.4       | 4.3       |
| 25           | 404            | 34             | 4.7       | 4.6       | 4.4       |
| 26           | 415            | 36             | 4.9       | 4.8       | 4.6       |
| 27           | 428            | 39             | 5.3       | 5.0       | 4.9       |
| 28           | 441            | 44             | 5.7       | 5.5       | 5.2       |
| 29           | 454            | 51             | 6.0       | 5.9       | 5.7       |
| 30           | 467            | 59             | 6.0       | 6.0       | 6.0       |

Raw Score to Scale Score to Proficiency Level Conversion: Spek 6-8 B/C S403 Online

#### Table 2.6.4.5.1

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G9 | PL for G10 | PL for G11 | PL for G12 |
|--------------|----------------|----------------|-----------|------------|------------|------------|
| 0            | 172            | 40             | 1.1       | 1.0        | 1.0        | 1.0        |
| 1            | 172            | 40             | 1.1       | 1.0        | 1.0        | 1.0        |
| 2            | 172            | 40             | 1.1       | 1.0        | 1.0        | 1.0        |
| 3            | 183            | 38             | 1.2       | 1.1        | 1.1        | 1.0        |
| 4            | 197            | 40             | 1.3       | 1.2        | 1.2        | 1.1        |
| 5            | 211            | 49             | 1.4       | 1.3        | 1.3        | 1.3        |
| 6            | 225            | 64             | 1.5       | 1.4        | 1.4        | 1.4        |

Raw Score to Scale Score to Proficiency Level Conversion: Spek 9-12 Pre-A S403 Online

Note: Score reports provided to students include the CSEM value multiplied by 1.96.

#### Table 2.6.4.5.2

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for C9 | PL for C10 | PL for G11 | PL for G12 |
|--------------|----------------|----------------|-----------|------------|------------|------------|
| 0            | 172            | 37             | 1.1       | 1.0        | 1.0        | 1.0        |
| 1            | 172            | 37             | 1.1       | 1.0        | 1.0        | 1.0        |
| 2            | 172            | 37             | 1.1       | 1.0        | 1.0        | 1.0        |
| 3            | 179            | 36             | 1.1       | 1.1        | 1.0        | 1.0        |
| 4            | 191            | 36             | 1.2       | 1.2        | 1.1        | 1.1        |
| 5            | 203            | 37             | 1.3       | 1.3        | 1.2        | 1.2        |
| 6            | 217            | 40             | 1.4       | 1.4        | 1.3        | 1.3        |
| 7            | 232            | 42             | 1.5       | 1.5        | 1.4        | 1.4        |
| 8            | 248            | 41             | 1.6       | 1.6        | 1.6        | 1.5        |
| 9            | 263            | 41             | 1.8       | 1.7        | 1.7        | 1.7        |
| 10           | 279            | 43             | 1.9       | 1.8        | 1.8        | 1.8        |
| 11           | 298            | 49             | 2.2       | 2.0        | 1.9        | 1.9        |
| 12           | 323            | 55             | 2.8       | 2.7        | 2.6        | 2.5        |
| 13           | 350            | 52             | 3.3       | 3.2        | 3.2        | 3.1        |
| 14           | 372            | 48             | 3.7       | 3.6        | 3.5        | 3.4        |
| 15           | 392            | 47             | 4.1       | 3.9        | 3.8        | 3.7        |
| 16           | 413            | 50             | 4.5       | 4.3        | 4.2        | 4.1        |
| 17           | 434            | 59             | 4.8       | 4.7        | 4.6        | 4.5        |
| 18           | 455            | 75             | 5.5       | 5.3        | 5.1        | 5.0        |

| Raw Score to Scale Score to Proficien | ncy Level Conversion: Spek 9-12 A S403 Online |
|---------------------------------------|---|

Note: Score reports provided to students include the CSEM value multiplied by 1.96.

| Raw<br>Score | Scale<br>Score | CSEM x<br>1.96 | PL for G9 | PL for G10 | PL for G11 | PL for G12 |
|--------------|----------------|----------------|-----------|------------|------------|------------|
| 6            | 172            | 37             | 1.1       | 1.0        | 1.0        | 1.0        |
| 7            | 221            | 35             | 1.4       | 1.4        | 1.4        | 1.3        |
| 8            | 232            | 34             | 1.5       | 1.5        | 1.4        | 1.4        |
| 9            | 242            | 33             | 1.6       | 1.6        | 1.5        | 1.5        |
| 10           | 251            | 31             | 1.7       | 1.6        | 1.6        | 1.6        |
| 11           | 260            | 30             | 1.7       | 1.7        | 1.7        | 1.6        |
| 12           | 268            | 30             | 1.8       | 1.8        | 1.7        | 1.7        |
| 13           | 277            | 30             | 1.9       | 1.8        | 1.8        | 1.8        |
| 14           | 285            | 31             | 1.9       | 1.9        | 1.8        | 1.8        |
| 15           | 294            | 32             | 2.1       | 1.9        | 1.9        | 1.9        |
| 16           | 305            | 34             | 2.3       | 2.2        | 2.1        | 2.0        |
| 17           | 316            | 37             | 2.6       | 2.5        | 2.4        | 2.3        |
| 18           | 330            | 38             | 3.0       | 2.9        | 2.8        | 2.7        |
| 19           | 343            | 38             | 3.2       | 3.1        | 3.0        | 3.0        |
| 20           | 356            | 37             | 3.4       | 3.3        | 3.3        | 3.2        |
| 21           | 368            | 35             | 3.7       | 3.5        | 3.4        | 3.4        |
| 22           | 379            | 34             | 3.8       | 3.7        | 3.6        | 3.5        |
| 23           | 389            | 33             | 4.0       | 3.9        | 3.8        | 3.7        |
| 24           | 399            | 33             | 4.2       | 4.1        | 3.9        | 3.8        |
| 25           | 409            | 34             | 4.4       | 4.3        | 4.1        | 4.0        |
| 26           | 420            | 35             | 4.6       | 4.5        | 4.3        | 4.2        |
| 27           | 432            | 38             | 4.8       | 4.7        | 4.6        | 4.5        |
| 28           | 444            | 43             | 5.1       | 4.9        | 4.8        | 4.7        |
| 29           | 456            | 49             | 5.5       | 5.4        | 5.2        | 5.0        |
| 30           | 476            | 64             | 6.0       | 6.0        | 6.0        | 6.0        |

Raw Score to Scale Score to Proficiency Level Conversion: Spek 9-12 B/C S403 Online

Table 2.6.4.5.3

Note: Score reports provided to students include the CSEM value multiplied by 1.96.

## 2.7 Equating Summary

Each year a certain percentage of items on each ACCESS for ELLs test form are new, as determined by the refreshment plan for that series. For Series 403, all four domains were refreshed. An equating procedure known as common-item equating is used to equate the results on new forms to the older forms. In this procedure, the difficulty measures for items that appear on both the new and the old forms are kept constant across both forms. Thus, performances on the newer form may be interpreted with the same frame of reference. Many items appearing on ACCESS Online Series 403 also appeared on Series 402. All items common to both forms were anchored to their 402 values in the first equating run. In addition, for the Speaking domain, difficulty measures for the new tasks were anchored to their initial calibrated values from the Speaking field test analysis. After the first equating run, some items that were originally anchored, either to their operational or to their field test value, proved to have changed in their difficulty measure. This change is measured by the "Displacement" statistic. This statistic shows the difference between the difficulty value of the anchored item and what its difficulty value would have been had it not been anchored. Typically, displacements of less than 0.5 logits are unlikely to have much impact on measurement in a test instrument (Linacre, n.d.). For Listening and Reading items and for Writing tasks, if this value was large (i.e., usually above 0.30 or below -0.30), that item was unanchored in the final equating run (i.e., it was treated as if it were a new item). For Speaking tasks, a slightly different displacement criterion (above 0.50 or below -0.50) was used since anchored tasks from the Speaking domain have been shown to be less stable than items and tasks from other domains.

A pre-equating design was used to conduct the annual equating for Listening and Reading domains. This design allows for Listening and Reading item parameters to be available for setting up the computer adaptive engine prior to operational administration. For the Listening and Reading domains, student data collected from the Series 403 embedded field test were used to conduct the equating analyses. All available student data at the time the equating analyses were conducted were included in the analyses.

For the Writing domain, the equating analysis was conducted using Series 403 operational data collected during the early testing window. The Writing equating study was conducted with a random sample drawn with a target sample size of 3,000 students per grade-level cluster. The Writing equating sample was drawn so that it was proportional to the Series 401 and Series 402 population means for the Writing domain, by grade and tiered form.

For the Speaking domain, student data from the Series 403 appended Speaking field test administration were used to conduct the initial common-item equating. These initial item parameters were then verified using Series 403 operational data collected during the early testing window. The Speaking verification study was conducted using a random sample drawn with a target sample size of 3,000 students per grade-level cluster. The Speaking verification sample was drawn such that it was proportional to the Series 401 and Series 402 population means for the Speaking domain, by grade and tier.

Tables in this section present a summary of the equating and verification procedures. The first section of the table compares the current test (i.e., the Series 403 version of that test form) to the previous year's test (i.e., the Series 402 version of that test form). The number of items, the average item difficulty, the standard deviation of the item difficulty values, and the difficulty value of the easiest and hardest item on each test form are shown. These values are in terms of logits used in the Rasch measurement model.

The second section of the table presents information on the anchoring items. The total number of possible anchors that were initially anchored to their previous values is shown, as well as the standard deviation of those items. Next, the number of items that were anchored in the final equating run is shown, again with the average item difficulty and standard deviation. Finally, the percentage of items that served as anchors and their average displacement value is given. Generally speaking, the greater the number of tasks anchored and the closer their average displacement is to 0.00, the more trustworthy the equating results will be.

The third section of the tables gives information about the anchor items or tasks, both by order of displacement statistics and by order of item difficulty. The displacement statistics provide information on the difference between the difficulty value of the anchored item and what that difficulty value would have been had the item not been anchored. Smaller displacement statistics indicate more consistency between the item's difficulty value on the Series 403 test form and on the Series 402 test form. It is desirable that the anchor items represent a wide range of difficulties across the entire spectrum of the item difficulty values on a test form.

In general, and for longer tests such as Listening and Reading, the greater the representation across the difficulty range of anchor items, the more trustworthy the equating results will be. For the Writing and Speaking domains, which are shorter and performance based, and which have additional content and exposure considerations in terms of item refreshment, this rule of thumb may not always apply. In addition, the number of anchors is also a function of the targeted refreshment plan, which can differ by series and by domains.

For the Writing and Speaking tasks, this table has a fourth section, which provides the anchored step measures for the score on each task. For the ACCESS Writing and Speaking tasks, a Raschgrouped rating scale model is used (see Part 2, Chapter 2 "Analysis of Domains"). For Writing, the step difficulty values are the same for all the tasks that are scored on the 0–9 raw score scale. These constant step difficulty values help to provide anchors in the calibration of new Writing tasks onto the common WIDA score scale each year. For Speaking, the step difficulty values for all PL 1 tasks are the same and the step difficulty values for all PL 3 and PL 5 tasks are the same. As with Writing, these constant step difficulty values help to provide anchors in the calibration of new Speaking tasks onto the common WIDA score scale each year.

# 2.7.1 Listening

## 2.7.1.1 Grade 1

#### Table 2.7.1.1

Equating Summary: List 1 S403 Online

| Comparison of             | ÷                     |              | rm 403       |                                |                                 | Form 40            | 2                               |  |
|---------------------------|-----------------------|--------------|--------------|--------------------------------|---------------------------------|--------------------|---------------------------------|--|
| Forms                     | No. of Ite            | ems          | Ave          | rage Difficulty<br>(Std. Dev.) | No. of Ite                      |                    | erage Difficulty<br>(Std. Dev.) |  |
|                           | 54                    |              | -1.16 (1.33) |                                | 54                              |                    | -1.25 (1.33)                    |  |
|                           | Easiest               |              |              | Hardest                        | Easiest                         | ;                  | Hardest                         |  |
|                           | -4.38                 |              |              | 1.34                           | -4.38                           |                    | 1.46                            |  |
| Anchoring<br>Items        | No. of Poss<br>Anchor |              | Ave          | rage Difficulty<br>(Std. Dev.) |                                 |                    |                                 |  |
|                           | 42                    |              |              | -1.48 (1.27)                   |                                 |                    |                                 |  |
|                           | No. of Anc            | hors         | Ave          | rage Difficulty                |                                 |                    |                                 |  |
|                           | Used                  |              |              | (Std. Dev.)                    |                                 |                    |                                 |  |
|                           | 35                    |              |              | -1.48 (1.39)                   |                                 |                    |                                 |  |
|                           | Percenta              | 0            |              | Average                        |                                 |                    |                                 |  |
|                           | Anchor                | S            | D            | <b>Displacement</b>            |                                 |                    |                                 |  |
| D:                        | 65%                   |              |              | 0.00                           |                                 |                    |                                 |  |
| Displacement<br>of Anchor |                       |              |              |                                |                                 |                    | -                               |  |
| Items                     | Ancho                 |              |              | splacement                     | Anchor Items by Item Difficulty |                    |                                 |  |
|                           | Item ID               | Ite<br>Diffi | em<br>culty  | Displacement                   | Item ID                         | Item<br>Difficulty | Displacement                    |  |
|                           | 13803                 | -1.          | .67          | -0.29                          | 12445                           | -4.38              | 0.18                            |  |
|                           | 12692                 | -3.          | .17          | -0.23                          | 12690                           | -3.39              | -0.02                           |  |
|                           | 14952                 | -3.          | .03          | -0.20                          | 13889                           | -3.27              | 0.05                            |  |
|                           | 14837                 | -2.          | .11          | -0.19                          | 12692                           | -3.17              | -0.23                           |  |
|                           | 13816                 | -1.          | .89          | -0.16                          | 14952                           | -3.03              | -0.20                           |  |
|                           | 12691                 | -2.          | .96          | -0.15                          | 13810                           | -2.97              | 0.00                            |  |
|                           | 13898                 | -0.          | .94          | -0.09                          | 12691                           | -2.96              | -0.15                           |  |
|                           | 13877                 | 1.           | 34           | -0.09                          | 13891                           | -2.55              | 0.05                            |  |
|                           | 11667                 | 0.           | 44           | -0.08                          | 12446                           | -2.54              | 0.19                            |  |
|                           | 13878                 | 0.           | 31           | -0.06                          | 13808                           | -2.41              | 0.01                            |  |
|                           | 11671                 | -2.          | .02          | -0.04                          | 13802                           | -2.40              | 0.03                            |  |
|                           | 12746                 | -0.          | .86          | -0.04                          | 13890                           | -2.23              | 0.08                            |  |
|                           | 13879                 | -0.          | .64          | -0.04                          | 14837                           | -2.11              | -0.19                           |  |
|                           | 12754                 | -0.          | .47          | -0.02                          | 11671                           | -2.02              | -0.04                           |  |
|                           | 12690                 | -3.          | .39          | -0.02                          | 13809                           | -1.90              | 0.03                            |  |

| Displacement |         |                    |              |                                 |                    |              |  |
|--------------|---------|--------------------|--------------|---------------------------------|--------------------|--------------|--|
| of Anchor    | Ancho   | r Items by Di      | splacement   | Anchor Items by Item Difficulty |                    |              |  |
| Items        | Item ID | Item<br>Difficulty | Displacement | Item ID                         | Item<br>Difficulty | Displacement |  |
|              | 11668   | -0.81              | -0.01        | 13816                           | -1.89              | -0.16        |  |
|              | 12447   | 1.15               | -0.01        | 13900                           | -1.82              | 0.19         |  |
|              | 13810   | -2.97              | 0.00         | 13803                           | -1.67              | -0.29        |  |
|              | 13808   | -2.41              | 0.01         | 14899                           | -1.50              | 0.16         |  |
|              | 13802   | -2.40              | 0.03         | 12745                           | -1.35              | 0.08         |  |
|              | 13809   | -1.90              | 0.03         | 13899                           | -1.15              | 0.04         |  |
|              | 13899   | -1.15              | 0.04         | 13804                           | -1.03              | 0.17         |  |
|              | 13891   | -2.55              | 0.05         | 13898                           | -0.94              | -0.09        |  |
|              | 13889   | -3.27              | 0.05         | 12746                           | -0.86              | -0.04        |  |
|              | 12745   | -1.35              | 0.08         | 11668                           | -0.81              | -0.01        |  |
|              | 13890   | -2.23              | 0.08         | 13879                           | -0.64              | -0.04        |  |
|              | 12848   | 0.10               | 0.12         | 12754                           | -0.47              | -0.02        |  |
|              | 12846   | 0.58               | 0.12         | 13815                           | -0.38              | 0.21         |  |
|              | 12847   | 0.02               | 0.14         | 12847                           | 0.02               | 0.14         |  |
|              | 14899   | -1.50              | 0.16         | 12848                           | 0.10               | 0.12         |  |
|              | 13804   | -1.03              | 0.17         | 13878                           | 0.31               | -0.06        |  |
|              | 12445   | -4.38              | 0.18         | 11667                           | 0.44               | -0.08        |  |
|              | 12446   | -2.54              | 0.19         | 12846                           | 0.58               | 0.12         |  |
|              | 13900   | -1.82              | 0.19         | 12447                           | 1.15               | -0.01        |  |
|              | 13815   | -0.38              | 0.21         | 13877                           | 1.34               | -0.09        |  |

## 2.7.1.2 Grades 2–3

Equating Summary: List 2-3 S403 Online

| Comparison of |                | Form       | n 403        |                                |            | Form 402      |                                 |  |  |
|---------------|----------------|------------|--------------|--------------------------------|------------|---------------|---------------------------------|--|--|
| Forms         | No. of Ite     | ems        | Ave          | rage Difficulty<br>(Std. Dev.) | No. of Ite |               | erage Difficulty<br>(Std. Dev.) |  |  |
|               | 54             |            | -1.25 (1.56) |                                | 54         |               | -1.15 (1.63)                    |  |  |
|               | Easiest        |            |              | Hardest                        | Easiest    | t             | Hardest                         |  |  |
|               | -4.12          |            |              | 1.64                           | -3.89      |               | 1.84                            |  |  |
| Anchoring     | No. of Pos     |            |              | rage Difficulty                |            |               |                                 |  |  |
| Items         | Anchor         | s          |              | (Std. Dev.)                    |            |               |                                 |  |  |
|               | 45             |            |              | -1.48 (1.53)                   |            |               |                                 |  |  |
|               | No. of Anc     | hors       |              | rage Difficulty                |            |               |                                 |  |  |
|               | Used           |            |              | (Std. Dev.)                    |            |               |                                 |  |  |
|               | 42<br>Percenta | <i>a</i> 0 |              | -1.48 (1.49)                   |            |               |                                 |  |  |
|               | Anchor         | -          | n            | Average<br>visplacement        |            |               |                                 |  |  |
|               | 78%            | 5          | -0.04        |                                |            |               |                                 |  |  |
| Displacement  | 10,0           |            |              | 0.01                           |            |               |                                 |  |  |
| of Anchor     | Ancho          | r Itoms h  | w Di         | splacement                     | Ancho      | r Itoms hv It | em Difficulty                   |  |  |
| Items         | Ancio          | Item       |              |                                | Alterio    | Item          |                                 |  |  |
|               | Item ID        | Difficu    |              | Displacement                   | Item ID    | Difficulty    | Displacement                    |  |  |
|               | 13790          | -2.68      | 3            | -0.26                          | 12731      | -3.89         | -0.05                           |  |  |
|               | 12734          | 0.26       |              | -0.24                          | 13788      | -3.85         | -0.11                           |  |  |
|               | 12706          | -1.64      | 1            | -0.24                          | 13797      | -3.68         | -0.07                           |  |  |
|               | 13799          | -2.87      | 7            | -0.22                          | 11544      | -3.56         | -0.06                           |  |  |
|               | 11546          | -1.50      | )            | -0.21                          | 13905      | -3.26         | 0.13                            |  |  |
|               | 12705          | -0.17      | 7            | -0.20                          | 12825      | -3.26         | -0.12                           |  |  |
|               | 13798          | -2.72      | 2            | -0.17                          | 13904      | -3.24         | -0.02                           |  |  |
|               | 12828          | -2.29      | Ð            | -0.14                          | 12956      | -3.09         | 0.05                            |  |  |
|               | 12813          | -1.83      |              | -0.12                          | 13799      | -2.87         | -0.22                           |  |  |
|               | 11545          | -1.90      | )            | -0.12                          | 13798      | -2.72         | -0.17                           |  |  |
|               | 12825          | -3.26      | 5            | -0.12                          | 13790      | -2.68         | -0.26                           |  |  |
|               | 13788          | -3.85      | 5            | -0.11                          | 14884      | -2.64         | -0.11                           |  |  |
|               | 14884          | -2.64      | 1            | -0.11                          | 12732      | -2.36         | 0.08                            |  |  |
|               | 12787          | -0.11      | 1            | -0.11                          | 13910      | -2.33         | 0.07                            |  |  |
|               | 12988          | -1.07      | 7            | -0.10                          | 12828      | -2.29         | -0.14                           |  |  |

| Displacement |         |                    |              |         |                    |               |  |
|--------------|---------|--------------------|--------------|---------|--------------------|---------------|--|
| of Anchor    | Ancho   | r Items by Di      | snlacement   | Ancho   | r Items by Ite     | em Difficulty |  |
| Items        |         |                    |              |         |                    |               |  |
|              | Item ID | Item<br>Difficulty | Displacement | Item ID | Item<br>Difficulty | Displacement  |  |
|              | 13906   | -2.24              | -0.10        | 13906   | -2.24              | -0.10         |  |
|              | 13797   | -3.68              | -0.07        | 12730   | -2.07              | -0.02         |  |
|              | 11544   | -3.56              | -0.06        | 12954   | -1.97              | 0.02          |  |
|              | 12815   | -0.47              | -0.05        | 11545   | -1.90              | -0.12         |  |
|              | 12785   | 0.00               | -0.05        | 12813   | -1.83              | -0.12         |  |
|              | 12786   | 1.56               | -0.05        | 12733   | -1.69              | 0.03          |  |
|              | 12731   | -3.89              | -0.05        | 12706   | -1.64              | -0.24         |  |
|              | 12707   | -0.30              | -0.05        | 11546   | -1.50              | -0.21         |  |
|              | 12830   | -1.17              | -0.04        | 12814   | -1.26              | -0.03         |  |
|              | 12814   | -1.26              | -0.03        | 12830   | -1.17              | -0.04         |  |
|              | 12730   | -2.07              | -0.02        | 12957   | -1.12              | 0.10          |  |
|              | 13904   | -3.24              | -0.02        | 12988   | -1.07              | -0.10         |  |
|              | 13912   | -0.24              | 0.01         | 13911   | -0.87              | 0.26          |  |
|              | 12733   | -1.69              | 0.03         | 12815   | -0.47              | -0.05         |  |
|              | 12954   | -1.97              | 0.04         | 12707   | -0.30              | -0.05         |  |
|              | 12956   | -3.09              | 0.05         | 13912   | -0.24              | 0.01          |  |
|              | 13910   | -2.33              | 0.07         | 12705   | -0.17              | -0.20         |  |
|              | 12732   | -2.36              | 0.08         | 12787   | -0.11              | -0.11         |  |
|              | 12971   | 0.35               | 0.08         | 12991   | -0.07              | 0.18          |  |
|              | 12735   | 1.28               | 0.10         | 12785   | 0.00               | -0.05         |  |
|              | 12957   | -1.12              | 0.10         | 12953   | 0.13               | 0.12          |  |
|              | 12955   | 1.23               | 0.11         | 12734   | 0.26               | -0.24         |  |
|              | 12953   | 0.13               | 0.12         | 12990   | 0.29               | 0.16          |  |
|              | 13905   | -3.26              | 0.13         | 12971   | 0.35               | 0.08          |  |
|              | 12990   | 0.29               | 0.16         | 12955   | 1.23               | 0.11          |  |
|              | 12991   | -0.07              | 0.18         | 12735   | 1.28               | 0.10          |  |
|              | 13911   | -0.87              | 0.26         | 12786   | 1.56               | -0.05         |  |

## 2.7.1.3 Grades 4–5

Equating Summary: List 4-5 S403 Online

| Comparison of |                | For        | m 403                |                                 |            | Form 40       | 2                                 |  |
|---------------|----------------|------------|----------------------|---------------------------------|------------|---------------|-----------------------------------|--|
| Forms         | No. of Ite     | ems        | Ave                  | erage Difficulty<br>(Std. Dev.) | No. of Ite |               | Average Difficulty<br>(Std. Dev.) |  |
|               | 54             |            | 0.41 (1.72)          |                                 | 54         |               | 0.45 (1.80)                       |  |
|               | Easiest        |            |                      | Hardest                         | Easiest    | t             | Hardest                           |  |
|               | -2.65          |            |                      | 4.50                            | -2.76      |               | 4.50                              |  |
| Anchoring     | No. of Poss    |            | Ave                  | rage Difficulty                 |            |               |                                   |  |
| Items         | Anchor         | s          |                      | (Std. Dev.)                     |            |               |                                   |  |
|               | 42             |            |                      | 0.24 (1.79)                     |            |               |                                   |  |
|               | No. of Anc     | hors       | Ave                  | rage Difficulty                 |            |               |                                   |  |
|               | Used           |            |                      | (Std. Dev.)                     |            |               |                                   |  |
|               | 27<br>Percenta | <b>7</b> 0 |                      | 0.48 (1.98)                     |            |               |                                   |  |
|               | Anchor         | -          | п                    | Average                         |            |               |                                   |  |
|               | 50%            | 5          | Displacement<br>0.01 |                                 |            |               |                                   |  |
| Displacement  | 2070           |            |                      | 0.01                            |            |               |                                   |  |
| of Anchor     | Ancho          | r Itoms    | by Di                | splacement                      | Ancho      | r Itoms hy It | em Difficulty                     |  |
| Items         | Ancho          | Iten       |                      |                                 | Ancho      | Item          |                                   |  |
|               | Item ID        | Diffic     |                      | Displacement                    | Item ID    | Difficulty    | Displacement                      |  |
|               | 14945          | 0.1        | 0                    | -0.28                           | 12919      | -2.65         | -0.01                             |  |
|               | 14214          | 4.5        | 0                    | -0.25                           | 12793      | -2.36         | 0.10                              |  |
|               | 12917          | -0.3       | 39                   | -0.19                           | 12792      | -1.97         | -0.09                             |  |
|               | 13028          | 3.2        | 0                    | -0.18                           | 13024      | -1.78         | -0.04                             |  |
|               | 12794          | -0.2       | 22                   | -0.13                           | 12571      | -1.61         | 0.10                              |  |
|               | 13027          | 3.3        | 3                    | -0.11                           | 12416      | -1.40         | 0.09                              |  |
|               | 12792          | -1.9       | €7                   | -0.09                           | 12394      | -0.89         | 0.17                              |  |
|               | 12918          | -0.4       | 47                   | -0.05                           | 13026      | -0.76         | -0.02                             |  |
|               | 13024          | -1.7       | 78                   | -0.04                           | 12918      | -0.47         | -0.05                             |  |
|               | 13025          | -0.3       | 38                   | -0.04                           | 12917      | -0.39         | -0.19                             |  |
|               | 14845          | 0.1        | 7                    | -0.03                           | 13025      | -0.38         | -0.04                             |  |
|               | 13026          | -0.7       | 76                   | -0.02                           | 12794      | -0.22         | -0.13                             |  |
|               | 12919          | -2.6       | 55                   | -0.01                           | 14833      | -0.21         | 0.05                              |  |
|               | 14212          | 2.4        | .9                   | 0.02                            | 14945      | 0.10          | -0.28                             |  |
|               | 14833          | -0.2       | 21                   | 0.05                            | 14845      | 0.17          | -0.03                             |  |

| Displacement<br>of Anchor<br>Items | Ancho   | r Items by Di      | splacement   | Anchor Items by Item Difficulty |                    |              |
|------------------------------------|---------|--------------------|--------------|---------------------------------|--------------------|--------------|
| Items                              | Item ID | Item<br>Difficulty | Displacement | Item ID                         | Item<br>Difficulty | Displacement |
|                                    | 13029   | 1.83               | 0.06         | 12597                           | 0.43               | 0.08         |
|                                    | 12597   | 0.43               | 0.08         | 14213                           | 1.13               | 0.12         |
|                                    | 14846   | 3.22               | 0.08         | 12396                           | 1.26               | 0.13         |
|                                    | 12416   | -1.40              | 0.09         | 12942                           | 1.44               | 0.29         |
|                                    | 12793   | -2.36              | 0.10         | 12946                           | 1.46               | 0.18         |
|                                    | 12571   | -1.61              | 0.10         | 13029                           | 1.83               | 0.06         |
|                                    | 14213   | 1.13               | 0.12         | 14212                           | 2.49               | 0.02         |
|                                    | 12396   | 1.26               | 0.13         | 13028                           | 3.20               | -0.18        |
|                                    | 12394   | -0.89              | 0.17         | 14846                           | 3.22               | 0.08         |
|                                    | 12946   | 1.46               | 0.18         | 13027                           | 3.33               | -0.11        |
|                                    | 12943   | 3.60               | 0.23         | 12943                           | 3.60               | 0.23         |
|                                    | 12942   | 1.44               | 0.29         | 14214                           | 4.50               | -0.25        |

## 2.7.1.4 Grades 6–8

Equating Summary: List 6-8 S403 Online

| Comparison of |                    | For           | m 403           |                                |                                 | Form 402           |                                 |  |  |
|---------------|--------------------|---------------|-----------------|--------------------------------|---------------------------------|--------------------|---------------------------------|--|--|
| Forms         | No. of Ite         | ems           | Ave             | rage Difficulty<br>(Std. Dev.) | No. of Ite                      |                    | erage Difficulty<br>(Std. Dev.) |  |  |
|               | 54                 | 54            |                 | 1.22 (1.35)                    | 54                              |                    | 1.16 (1.36)                     |  |  |
|               | Easiest            |               |                 | Hardest                        | Easiest                         | ;                  | Hardest                         |  |  |
|               | -2.40              |               |                 | 3.55                           | -2.40                           |                    | 3.95                            |  |  |
| Anchoring     | No. of Poss        | sible         |                 | rage Difficulty                |                                 |                    |                                 |  |  |
| Items         | Anchor             | s             |                 | (Std. Dev.)                    |                                 |                    |                                 |  |  |
|               | 42                 |               |                 | 1.07 (1.41)                    |                                 |                    |                                 |  |  |
|               | No. of Anc         | hors          |                 | rage Difficulty                |                                 |                    |                                 |  |  |
|               | Used               |               |                 | (Std. Dev.)                    |                                 |                    |                                 |  |  |
|               | 27<br>Democrate    | <b>7</b> 0    |                 | 0.75 (1.33)                    |                                 |                    |                                 |  |  |
|               | Percenta<br>Anchor |               | п               | Average<br>visplacement        |                                 |                    |                                 |  |  |
|               | 50%                | 5             | <u> </u>        | -0.04                          |                                 |                    |                                 |  |  |
| Displacement  | 5070               |               |                 | -0.04                          |                                 |                    |                                 |  |  |
| of Anchor     | Ancho              | r Itoma       | by Di           | anlagament                     | Ancho                           | n Itoma by It      | m Difficulty                    |  |  |
| Items         | Ancho              |               | by Displacement |                                | Anchor Items by Item Difficulty |                    |                                 |  |  |
|               | Item ID            | Ite<br>Diffic |                 | Displacement                   | Item ID                         | Item<br>Difficulty | Displacement                    |  |  |
|               | 13062              | -0.           | 13              | -0.28                          | 12884                           | -2.40              | -0.17                           |  |  |
|               | 11474              | 1.7           | 71              | -0.25                          | 13061                           | -0.79              | -0.09                           |  |  |
|               | 14863              | 1.4           | 43              | -0.24                          | 12380                           | -0.74              | 0.15                            |  |  |
|               | 12849              | -0.           | 68              | -0.22                          | 13060                           | -0.69              | -0.22                           |  |  |
|               | 13060              | -0.           | 69              | -0.22                          | 12849                           | -0.68              | -0.22                           |  |  |
|               | 12850              | 0.9           | 90              | -0.21                          | 12885                           | -0.67              | -0.12                           |  |  |
|               | 14915              | 1.0           | )8              | -0.18                          | 12922                           | -0.51              | 0.04                            |  |  |
|               | 14917              | 1.0           | )5              | -0.18                          | 12454                           | -0.49              | 0.13                            |  |  |
|               | 12884              | -2.4          | 40              | -0.17                          | 13062                           | -0.13              | -0.28                           |  |  |
|               | 12886              | 0.1           | 1               | -0.13                          | 12455                           | -0.01              | 0.27                            |  |  |
|               | 12885              | -0.           | 67              | -0.12                          | 12886                           | 0.11               | -0.13                           |  |  |
|               | 12899              | 2.0           | )9              | -0.10                          | 11467                           | 0.84               | 0.18                            |  |  |
|               | 13061              | -0.           | 79              | -0.09                          | 12850                           | 0.90               | -0.21                           |  |  |
|               | 13838              | 2.5           | 51              | -0.07                          | 14917                           | 1.05               | -0.18                           |  |  |
|               | 12901              | 2.2           | 25              | -0.06                          | 14915                           | 1.08               | -0.18                           |  |  |

| Displacement<br>of Anchor<br>Items | Ancho   | r Items by Di              | splacement | Anchor Items by Item Difficulty |                    |              |
|------------------------------------|---------|----------------------------|------------|---------------------------------|--------------------|--------------|
| Items                              | Item ID | Item<br>Item ID Difficulty |            | Item ID                         | Item<br>Difficulty | Displacement |
|                                    | 12905   | 2.50                       | -0.05      | 12456                           | 1.26               | 0.22         |
|                                    | 13840   | 2.02                       | 0.02       | 12381                           | 1.30               | 0.16         |
|                                    | 13839   | 2.15                       | 0.03       | 14863                           | 1.43               | -0.24        |
|                                    | 12382   | 2.70                       | 0.03       | 11472                           | 1.61               | 0.11         |
|                                    | 12922   | -0.51                      | 0.04       | 11474                           | 1.71               | -0.25        |
|                                    | 11472   | 1.61                       | 0.11       | 13840                           | 2.02               | 0.02         |
|                                    | 12454   | -0.49                      | 0.13       | 12899                           | 2.09               | -0.10        |
|                                    | 12380   | -0.74                      | 0.15       | 13839                           | 2.15               | 0.03         |
|                                    | 12381   | 1.30                       | 0.16       | 12901                           | 2.25               | -0.06        |
|                                    | 11467   | 0.84                       | 0.18       | 12905                           | 2.50               | -0.05        |
|                                    | 12456   | 1.26                       | 0.22       | 13838                           | 2.51               | -0.07        |
|                                    | 12455   | -0.01                      | 0.27       | 12382                           | 2.70               | 0.03         |

## 2.7.1.5 Grades 9–12

Equating Summary: List 9-12 S403 Online

| Comparison of |                    | For           | m 403                 |                                 |                                 | Form 402           | 2                               |  |
|---------------|--------------------|---------------|-----------------------|---------------------------------|---------------------------------|--------------------|---------------------------------|--|
| Forms         | No. of Ite         | ems           | Ave                   | erage Difficulty<br>(Std. Dev.) | No. of Ite                      |                    | erage Difficulty<br>(Std. Dev.) |  |
|               | 54                 |               |                       | 1.43 (1.19)                     | 54                              |                    | 1.46 (1.16)                     |  |
|               | Easiest            | ;             | Hardest               |                                 | Easiest                         | ţ                  | Hardest                         |  |
|               | -0.80              |               |                       | 3.91                            | -0.52                           |                    | 3.91                            |  |
| Anchoring     | No. of Poss        | sible         | Ave                   | erage Difficulty                |                                 |                    |                                 |  |
| Items         | Anchor             | 'S            |                       | (Std. Dev.)                     |                                 |                    |                                 |  |
|               | 45                 |               |                       | 1.37 (1.26)                     |                                 |                    |                                 |  |
|               | No. of Anchors     |               | Ave                   | rage Difficulty                 |                                 |                    |                                 |  |
|               | Used               |               |                       | (Std. Dev.)                     |                                 |                    |                                 |  |
|               | <u>39</u>          |               |                       | 1.57 (1.21)                     |                                 |                    |                                 |  |
|               | Percenta<br>Anchor | -             | п                     | Average                         |                                 |                    |                                 |  |
|               | 72%                | 3             | Displacement<br>-0.01 |                                 |                                 |                    |                                 |  |
| Displacement  | 1270               |               |                       | -0.01                           |                                 |                    |                                 |  |
| of Anchor     | Anaha              | n Téorra      | h., D:                | an la com on t                  | Anaba                           | n Téoma ha Té      |                                 |  |
| Items         | Ancho              |               | by Displacement       |                                 | Anchor Items by Item Difficulty |                    |                                 |  |
|               | Item ID            | Ite<br>Diffic |                       | Displacement                    | Item ID                         | Item<br>Difficulty | Displacement                    |  |
|               | 14888              | 1.2           | 28                    | -0.24                           | 11035                           | -0.52              | 0.00                            |  |
|               | 14885              | 2.1           | .6                    | -0.23                           | 12869                           | -0.48              | -0.05                           |  |
|               | 15651              | 2.4           | 6                     | -0.20                           | 12360                           | -0.42              | 0.01                            |  |
|               | 12870              | 0.3           | 87                    | -0.15                           | 11034                           | -0.40              | -0.06                           |  |
|               | 14886              | 1.9           | 96                    | -0.13                           | 12893                           | 0.07               | 0.09                            |  |
|               | 13867              | 3.8           | 88                    | -0.13                           | 12444                           | 0.11               | 0.09                            |  |
|               | 11198              | 1.9           | 98                    | -0.12                           | 12870                           | 0.37               | -0.15                           |  |
|               | 11344              | 3.9           | 01                    | -0.10                           | 11199                           | 0.40               | 0.03                            |  |
|               | 12871              | 1.1           | 9                     | -0.09                           | 11036                           | 0.51               | -0.07                           |  |
|               | 13865              | 2.6           | 58                    | -0.08                           | 14954                           | 0.53               | 0.12                            |  |
|               | 14955              | 1.9           | 98                    | -0.08                           | 15649                           | 0.54               | 0.10                            |  |
|               | 11036              | 0.5           | 51                    | -0.07                           | 13036                           | 1.07               | 0.21                            |  |
|               | 12443              | 2.2           | 22                    | -0.07                           | 12442                           | 1.10               | 0.10                            |  |
|               | 14956              | 1.8           | 86                    | -0.07                           | 12871                           | 1.19               | -0.09                           |  |
|               | 11034              | -0.4          | 40                    | -0.06                           | 11245                           | 1.21               | 0.11                            |  |

| Displacement |         |                    |              |         |                    |              |
|--------------|---------|--------------------|--------------|---------|--------------------|--------------|
| of Anchor    | Ancho   | r Items by Di      | splacement   | Ancho   | r Items by Ite     | m Difficulty |
| Items        | Item ID | Item<br>Difficulty | Displacement | Item ID | Item<br>Difficulty | Displacement |
|              | 12869   | -0.48              | -0.05        | 15650   | 1.23               | 0.09         |
|              | 13037   | 2.66               | -0.04        | 14888   | 1.28               | -0.24        |
|              | 13038   | 3.60               | -0.02        | 12903   | 1.40               | 0.08         |
|              | 11035   | -0.52              | 0.00         | 11215   | 1.44               | 0.05         |
|              | 12360   | -0.42              | 0.01         | 12441   | 1.47               | 0.13         |
|              | 12895   | 2.83               | 0.01         | 12720   | 1.60               | 0.06         |
|              | 12907   | 2.18               | 0.02         | 14956   | 1.86               | -0.07        |
|              | 11199   | 0.40               | 0.03         | 14886   | 1.96               | -0.13        |
|              | 11215   | 1.44               | 0.05         | 14955   | 1.98               | -0.08        |
|              | 11343   | 2.65               | 0.05         | 11198   | 1.98               | -0.12        |
|              | 12720   | 1.60               | 0.06         | 12361   | 2.15               | 0.10         |
|              | 12903   | 1.40               | 0.08         | 14885   | 2.16               | -0.23        |
|              | 12893   | 0.07               | 0.09         | 12907   | 2.18               | 0.02         |
|              | 15650   | 1.23               | 0.09         | 12443   | 2.22               | -0.07        |
|              | 12444   | 0.11               | 0.09         | 15651   | 2.46               | -0.20        |
|              | 15649   | 0.54               | 0.10         | 11343   | 2.65               | 0.05         |
|              | 12361   | 2.15               | 0.10         | 13037   | 2.66               | -0.04        |
|              | 12442   | 1.10               | 0.10         | 13865   | 2.68               | -0.08        |
|              | 11245   | 1.21               | 0.11         | 12894   | 2.82               | 0.13         |
|              | 13866   | 3.49               | 0.12         | 12895   | 2.83               | 0.01         |
|              | 14954   | 0.53               | 0.12         | 13866   | 3.49               | 0.12         |
|              | 12441   | 1.47               | 0.13         | 13038   | 3.60               | -0.02        |
|              | 12894   | 2.82               | 0.13         | 13867   | 3.88               | -0.13        |
|              | 13036   | 1.07               | 0.21         | 11344   | 3.91               | -0.10        |

# 2.7.2 Reading

2.7.2.1 Grade 1

#### Table 2.7.2.1

Equating Summary: Read 1 S403 Online

| Comparison of      |                       | Fo         | rm 403  |                                 |                                 | Form 4    | 02                               |  |
|--------------------|-----------------------|------------|---------|---------------------------------|---------------------------------|-----------|----------------------------------|--|
| Forms              | No. of Ite            | ems        | Ave     | erage Difficulty<br>(Std. Dev.) | No. of Ite                      |           | verage Difficulty<br>(Std. Dev.) |  |
|                    | 72                    |            |         | -1.00 (1.14)                    | 72                              |           | -0.95 (1.10)                     |  |
|                    | Easiest               |            |         | Hardest                         | Easiest                         | ;         | Hardest                          |  |
|                    | -4.46                 |            |         | 1.01                            | -4.46                           |           | 0.79                             |  |
| Anchoring<br>Items | No. of Poss<br>Anchor |            | Ave     | erage Difficulty<br>(Std. Dev.) |                                 |           |                                  |  |
|                    | 60                    |            |         | -1.13 (1.19)                    |                                 |           |                                  |  |
|                    | No. of Anc            | hors       | Ave     | rage Difficulty                 |                                 |           |                                  |  |
|                    | Used                  |            |         | (Std. Dev.)                     |                                 |           |                                  |  |
|                    | 50<br>Bancanta        | <b>a</b> a |         | -1.13 (1.09)                    |                                 |           |                                  |  |
|                    | Percenta<br>Anchor    |            | D       | Average<br>Displacement         |                                 |           |                                  |  |
|                    | 69%                   | 5          |         | -0.01                           |                                 |           |                                  |  |
| Displacement       | 0,7,0                 |            |         | 0.01                            |                                 |           |                                  |  |
| of Anchor          | Ancho                 | r Item     | s by Di | splacement                      | Anchor Items by Item Difficulty |           |                                  |  |
| Items              |                       |            | em      |                                 |                                 | Item      |                                  |  |
|                    | Item ID               | -          | culty   | Displacement                    | Item ID                         | Difficult | y Displacement                   |  |
|                    | 16040                 | -0         | .61     | -0.29                           | 13313                           | -4.46     | -0.24                            |  |
|                    | 13246                 | -0         | .45     | -0.27                           | 13274                           | -4.07     | -0.14                            |  |
|                    | 13313                 | -4         | .46     | -0.24                           | 13315                           | -2.58     | 0.12                             |  |
|                    | 13201                 | -1         | .09     | -0.24                           | 13314                           | -2.42     | 0.08                             |  |
|                    | 13212                 | -1         | .67     | -0.23                           | 13211                           | -2.30     | 0.05                             |  |
|                    | 13200                 | -2         | .17     | -0.19                           | 13213                           | -2.28     | -0.05                            |  |
|                    | 13257                 | 0.         | 61      | -0.17                           | 13204                           | -2.19     | -0.08                            |  |
|                    | 13284                 | -1         | .71     | -0.16                           | 13200                           | -2.17     | -0.19                            |  |
|                    | 13258                 | 0.         | 14      | -0.16                           | 13193                           | -2.11     | 0.04                             |  |
|                    | 13203                 | -1         | .75     | -0.14                           | 13194                           | -2.06     | 0.10                             |  |
|                    | 13274                 | -4         | .07     | -0.14                           | 13199                           | -1.94     | 0.07                             |  |
|                    | 13256                 | 0.         | 57      | -0.14                           | 13202                           | -1.81     | -0.11                            |  |
|                    | 13202                 | -1         | .81     | -0.11                           | 13203                           | -1.75     | -0.14                            |  |
|                    | 13220                 | -0         | .83     | -0.09                           | 13284                           | -1.71     | -0.16                            |  |
|                    | 13204                 | -2         | .19     | -0.08                           | 13212                           | -1.67     | -0.23                            |  |

| Displacement |         |                    |              |          |                    |              |
|--------------|---------|--------------------|--------------|----------|--------------------|--------------|
| of Anchor    | Ancho   | r Items by Di      | splacement   | Ancho    | r Items by Ite     | m Difficulty |
| Items        |         | ľ ľ                |              | 11110110 | ľ ľ                |              |
|              | Item ID | Item<br>Difficulty | Displacement | Item ID  | Item<br>Difficulty | Displacement |
|              | 13240   | -0.95              | -0.07        | 16039    | -1.61              | 0.00         |
|              | 13245   | -0.81              | -0.07        | 13238    | -1.58              | 0.05         |
|              | 13243   | 0.47               | -0.06        | 13197    | -1.54              | 0.06         |
|              | 13241   | 0.50               | -0.06        | 13195    | -1.52              | 0.00         |
|              | 13213   | -2.28              | -0.05        | 16035    | -1.29              | 0.26         |
|              | 13198   | -0.64              | -0.05        | 13283    | -1.23              | 0.17         |
|              | 13242   | 0.57               | -0.01        | 13276    | -1.13              | 0.02         |
|              | 16039   | -1.61              | 0.00         | 13196    | -1.11              | 0.03         |
|              | 13195   | -1.52              | 0.00         | 13275    | -1.10              | 0.05         |
|              | 13222   | -1.04              | 0.01         | 13201    | -1.09              | -0.24        |
|              | 13276   | -1.13              | 0.02         | 16036    | -1.05              | 0.23         |
|              | 13196   | -1.11              | 0.03         | 13222    | -1.04              | 0.01         |
|              | 13285   | -0.62              | 0.03         | 13217    | -1.03              | 0.08         |
|              | 14722   | 0.08               | 0.03         | 13221    | -1.02              | 0.05         |
|              | 14721   | -0.08              | 0.03         | 13240    | -0.95              | -0.07        |
|              | 14723   | 0.10               | 0.04         | 13220    | -0.83              | -0.09        |
|              | 13193   | -2.11              | 0.04         | 13245    | -0.81              | -0.07        |
|              | 13238   | -1.58              | 0.05         | 13244    | -0.80              | 0.09         |
|              | 13239   | -0.60              | 0.05         | 13198    | -0.64              | -0.05        |
|              | 13211   | -2.30              | 0.05         | 13285    | -0.62              | 0.03         |
|              | 13221   | -1.02              | 0.05         | 16040    | -0.61              | -0.29        |
|              | 13275   | -1.10              | 0.05         | 13239    | -0.60              | 0.05         |
|              | 13197   | -1.54              | 0.06         | 13246    | -0.45              | -0.27        |
|              | 13199   | -1.94              | 0.07         | 13218    | -0.45              | 0.20         |
|              | 13217   | -1.03              | 0.08         | 14721    | -0.08              | 0.03         |
|              | 13314   | -2.42              | 0.08         | 14620    | 0.03               | 0.29         |
|              | 13244   | -0.80              | 0.09         | 13219    | 0.05               | 0.29         |
|              | 13194   | -2.06              | 0.10         | 14722    | 0.08               | 0.03         |

| Displacement<br>of Anchor<br>Items | Ancho   | r Items by D       | isplacement  | Anchor Items by Item Difficulty |                    |              |  |
|------------------------------------|---------|--------------------|--------------|---------------------------------|--------------------|--------------|--|
|                                    | Item ID | Item<br>Difficulty | Displacement | Item ID                         | Item<br>Difficulty | Displacement |  |
|                                    | 13315   | -2.58              | 0.12         | 14723                           | 0.10               | 0.04         |  |
|                                    | 13283   | -1.23              | 0.17         | 13258                           | 0.14               | -0.16        |  |
|                                    | 13218   | -0.45              | 0.20         | 13243                           | 0.47               | -0.06        |  |
|                                    | 16036   | -1.05              | 0.23         | 13241                           | 0.50               | -0.06        |  |
|                                    | 16035   | -1.29              | 0.26         | 13256                           | 0.57               | -0.14        |  |
|                                    | 14620   | 0.03               | 0.29         | 13242                           | 0.57               | -0.01        |  |
|                                    | 13219   | 0.05               | 0.29         | 13257                           | 0.61               | -0.17        |  |

## 2.7.2.2 Grades 2–3

Equating Summary: Read 2-3 S403 Online

| Comparison of |                    | Forn      | n 403    |                                |            | Forn      | n 402   |                                |
|---------------|--------------------|-----------|----------|--------------------------------|------------|-----------|---------|--------------------------------|
| Forms         | No. of Ite         | ems       |          | rage Difficulty<br>(Std. Dev.) | No. of Ite | ems       |         | rage Difficulty<br>(Std. Dev.) |
|               | 72                 |           |          | -0.37 (1.03)                   | 72         |           |         | -0.44 (1.06)                   |
|               | Easiest            | ;         | Hardest  |                                | Easiest    |           | Hardest |                                |
|               | -2.99              |           |          | 1.34                           | -3.26      |           | 1.34    |                                |
| Anchoring     | No. of Possible    |           | Ave      | rage Difficulty                |            |           |         |                                |
| Items         | Anchors            |           |          | (Std. Dev.)                    |            |           |         |                                |
|               | 63                 |           |          | -0.46 (1.06)                   |            |           |         |                                |
|               | No. of Anchors     |           |          | rage Difficulty                |            |           |         |                                |
|               | Used               |           |          | (Std. Dev.)                    |            |           |         |                                |
|               | 57<br>Demografie   |           |          | -0.53 (1.04)                   |            |           |         |                                |
|               | Percenta<br>Anchor | -         | п        | Average<br>visplacement        |            |           |         |                                |
|               | 79%                | 5         | <u> </u> | -0.02                          |            |           |         |                                |
| Displacement  | 1310               |           |          | 0.02                           |            |           |         |                                |
| of Anchor     | Ancho              | r Items l | hy Di    | splacement                     | Ancho      | r Items h | v Ite   | m Difficulty                   |
| Items         |                    | Iten      |          |                                |            | Iten      |         |                                |
|               | Item ID            | Difficu   |          | Displacement                   | Item ID    | Difficu   |         | Displacement                   |
|               | 13401              | -1.2      | 3        | -0.30                          | 13292      | -2.9      | 9       | 0.04                           |
|               | 13355              | -0.5      | 7        | -0.29                          | 13353      | -2.9      | 7       | -0.27                          |
|               | 13353              | -2.9      | 7        | -0.27                          | 13278      | -2.7      | 2       | 0.19                           |
|               | 13346              | 0.60      | )        | -0.26                          | 13325      | -2.6      | 2       | 0.03                           |
|               | 13403              | -0.92     | 2        | -0.25                          | 13293      | -2.0      | 3       | -0.18                          |
|               | 13421              | 0.70      | )        | -0.23                          | 13294      | -1.8      | 8       | 0.05                           |
|               | 15716              | 0.36      | 5        | -0.19                          | 13392      | -1.7      | 8       | 0.14                           |
|               | 13279              | -0.5      | 1        | -0.18                          | 15626      | -1.6      | 9       | 0.03                           |
|               | 13393              | -1.2      | 5        | -0.18                          | 13419      | -1.6      | 7       | -0.09                          |
|               | 13293              | -2.0      | 3        | -0.18                          | 13331      | -1.4      | 5       | -0.10                          |
|               | 13375              | 1.34      | 1        | -0.17                          | 13277      | -1.4      | 2       | -0.03                          |
|               | 13344              | 0.33      | 3        | -0.16                          | 13372      | -1.2      | 7       | 0.04                           |
|               | 13415              | -0.1      | 4        | -0.14                          | 13326      | -1.2      | 5       | -0.08                          |
|               | 13413              | -0.4      | 7        | -0.12                          | 13393      | -1.2      | 5       | -0.18                          |
|               | 13331              | -1.4      | 5        | -0.10                          | 13394      | -1.2      | 5       | 0.14                           |

| Displacement |         |               |              |         |                |              |
|--------------|---------|---------------|--------------|---------|----------------|--------------|
| of Anchor    | Ancho   | r Items by Di | splacement   | Ancho   | r Items by Ite | m Difficulty |
| Items        |         | Item          |              |         | Item           | 2            |
|              | Item ID | Difficulty    | Displacement | Item ID | Difficulty     | Displacement |
|              | 13338   | 0.80          | -0.09        | 13401   | -1.23          | -0.30        |
|              | 13419   | -1.67         | -0.09        | 13354   | -1.20          | 0.11         |
|              | 13376   | 0.66          | -0.08        | 13327   | -1.01          | -0.02        |
|              | 13326   | -1.25         | -0.08        | 13403   | -0.92          | -0.25        |
|              | 13340   | -0.25         | -0.07        | 13420   | -0.90          | 0.13         |
|              | 13358   | 0.54          | -0.06        | 15700   | -0.83          | 0.09         |
|              | 14584   | 0.92          | -0.05        | 15628   | -0.79          | 0.03         |
|              | 13412   | -0.11         | -0.05        | 13414   | -0.76          | 0.23         |
|              | 13373   | -0.63         | -0.05        | 13373   | -0.63          | -0.05        |
|              | 13333   | -0.34         | -0.04        | 13355   | -0.57          | -0.29        |
|              | 13277   | -1.42         | -0.03        | 13279   | -0.51          | -0.18        |
|              | 13327   | -1.01         | -0.02        | 13413   | -0.47          | -0.12        |
|              | 13345   | 1.24          | -0.01        | 13332   | -0.43          | 0.14         |
|              | 13932   | -0.08         | 0.00         | 14589   | -0.34          | 0.15         |
|              | 14590   | -0.21         | 0.01         | 13333   | -0.34          | -0.04        |
|              | 14583   | 0.05          | 0.01         | 13410   | -0.34          | 0.02         |
|              | 13410   | -0.34         | 0.02         | 13374   | -0.30          | 0.05         |
|              | 15628   | -0.79         | 0.03         | 13340   | -0.25          | -0.07        |
|              | 15626   | -1.69         | 0.03         | 14590   | -0.21          | 0.01         |
|              | 13325   | -2.62         | 0.03         | 13371   | -0.21          | 0.21         |
|              | 13372   | -1.27         | 0.04         | 13415   | -0.14          | -0.14        |
|              | 13292   | -2.99         | 0.04         | 13357   | -0.13          | 0.15         |
|              | 13339   | 0.38          | 0.04         | 13412   | -0.11          | -0.05        |
|              | 13411   | 0.21          | 0.04         | 13932   | -0.08          | 0.00         |
|              | 13374   | -0.30         | 0.05         | 14583   | 0.05           | 0.01         |
|              | 13294   | -1.88         | 0.05         | 13356   | 0.07           | 0.14         |
|              | 15700   | -0.83         | 0.09         | 13411   | 0.21           | 0.04         |
|              | 13354   | -1.20         | 0.11         | 13344   | 0.33           | -0.16        |
|              | 13937   | 0.42          | 0.12         | 15716   | 0.36           | -0.19        |
|              | 13420   | -0.90         | 0.13         | 13339   | 0.38           | 0.04         |

| Displacement<br>of Anchor | Ancho   | r Items by Di      | splacement   | Anchor Items by Item Difficulty |                    |              |  |
|---------------------------|---------|--------------------|--------------|---------------------------------|--------------------|--------------|--|
| Items                     | Item ID | Item<br>Difficulty | Displacement | Item ID                         | Item<br>Difficulty | Displacement |  |
|                           | 13394   | -1.25              | 0.14         | 13937                           | 0.42               | 0.12         |  |
|                           | 13392   | -1.78              | 0.14         | 13936                           | 0.45               | 0.21         |  |
|                           | 13332   | -0.43              | 0.14         | 13358                           | 0.54               | -0.06        |  |
|                           | 13356   | 0.07               | 0.14         | 13346                           | 0.60               | -0.26        |  |
|                           | 13357   | -0.13              | 0.15         | 14585                           | 0.64               | 0.20         |  |
|                           | 14589   | -0.34              | 0.15         | 13376                           | 0.66               | -0.08        |  |
|                           | 14591   | 0.81               | 0.16         | 13421                           | 0.70               | -0.23        |  |
|                           | 13278   | -2.72              | 0.19         | 13338                           | 0.80               | -0.09        |  |
|                           | 14585   | 0.64               | 0.20         | 14591                           | 0.81               | 0.16         |  |
|                           | 13371   | -0.21              | 0.21         | 14584                           | 0.92               | -0.05        |  |
|                           | 13936   | 0.45               | 0.21         | 13345                           | 1.24               | -0.01        |  |
|                           | 13414   | -0.76              | 0.23         | 13375                           | 1.34               | -0.17        |  |

## 2.7.2.3 Grades 4–5

Equating Summary: Read 4-5 S403 Online

| Comparison of             |                 | For     | rm 403          |                                |                                 | For    | m 402       |                                |
|---------------------------|-----------------|---------|-----------------|--------------------------------|---------------------------------|--------|-------------|--------------------------------|
| Forms                     | No. of Ite      | ems     | Ave             | rage Difficulty<br>(Std. Dev.) | No. of Ite                      | ems    | Ave         | rage Difficulty<br>(Std. Dev.) |
|                           | 69              |         |                 | 0.78 (1.30)                    | 69                              |        | 0.77 (1.29) |                                |
|                           | Easiest         |         | Hardest         |                                | Easiest                         |        | Hardest     |                                |
|                           | -3.19           |         | 3.31            |                                | -3.19                           |        | 3.18        |                                |
| Anchoring                 | No. of Possible |         | Ave             | rage Difficulty                |                                 |        |             |                                |
| Items                     | Anchors         |         |                 | (Std. Dev.)                    |                                 |        |             |                                |
|                           | 63              |         |                 | 0.70 (1.32)                    |                                 |        |             |                                |
|                           | No. of Anchors  |         | Ave             | rage Difficulty                |                                 |        |             |                                |
|                           | Used            |         |                 | (Std. Dev.)                    |                                 |        |             |                                |
|                           | 57              |         |                 | 0.61 (1.28)                    |                                 |        |             |                                |
|                           | Percenta        | -       | -               | Average                        |                                 |        |             |                                |
|                           | Anchor          | S       | D               | <b>Displacement</b>            |                                 |        |             |                                |
|                           | 83%             |         |                 | -0.01                          |                                 |        |             |                                |
| Displacement<br>of Anchor |                 |         |                 |                                |                                 |        |             |                                |
| Items                     | Ancho           | r Items | by Displacement |                                | Anchor Items by Item Difficulty |        |             |                                |
|                           |                 | Ite     |                 |                                |                                 | Ite    |             |                                |
|                           | Item ID         | Diffic  | •               | Displacement                   | Item ID                         | Diffic |             | Displacement                   |
|                           | 15993           | 0.0     | )1              | -0.30                          | 13509                           | -3.    | 19          | -0.15                          |
|                           | 13469           | 1.1     | 15              | -0.26                          | 13518                           | -1.9   | 94          | 0.00                           |
|                           | 16019           | 1.5     | 59              | -0.22                          | 15991                           | -1.3   | 81          | -0.10                          |
|                           | 15706           | 0.2     | 21              | -0.18                          | 13464                           | -1.0   | 61          | -0.04                          |
|                           | 15708           | 1.3     | 38              | -0.18                          | 13519                           | -1.    | 12          | 0.04                           |
|                           | 13509           | -3.     | 19              | -0.15                          | 13510                           | -1.0   | 06          | -0.03                          |
|                           | 13533           | 1.4     | 43              | -0.15                          | 13465                           | -0.    | 93          | 0.03                           |
|                           | 13480           | 0.7     | 75              | -0.14                          | 14715                           | -0.    | 75          | 0.13                           |
|                           | 13407           | -0.     | 72              | -0.13                          | 13407                           | -0.    | 72          | -0.13                          |
|                           | 13479           | -0.     | 69              | -0.12                          | 13479                           | -0.    | 69          | -0.12                          |
|                           | 16011           | 0.1     | 12              | -0.11                          | 13539                           | -0.    | 63          | -0.03                          |
|                           | 13504           | 2.5     | 57              | -0.10                          | 13466                           | -0.4   | 43          | -0.08                          |
|                           | 16018           | 1.2     | 28              | -0.10                          | 14714                           | -0.1   | 37          | 0.00                           |
|                           | 15991           | -1.     | 81              | -0.10                          | 13520                           | -0.    | 31          | -0.03                          |
|                           | 13540           | 1.9     | 92              | -0.09                          | 14626                           | -0.2   | 26          | 0.19                           |

| Displacement |         |                    |              |         |                    |              |  |
|--------------|---------|--------------------|--------------|---------|--------------------|--------------|--|
| of Anchor    | Ancho   | r Items by Di      | snlacement   | Ancho   | r Items by Ite     | m Difficulty |  |
| Items        |         |                    |              |         |                    |              |  |
|              | Item ID | Item<br>Difficulty | Displacement | Item ID | Item<br>Difficulty | Displacement |  |
|              | 13466   | -0.43              | -0.08        | 13409   | -0.17              | 0.12         |  |
|              | 13505   | 1.96               | -0.08        | 13451   | -0.11              | -0.04        |  |
|              | 15707   | 1.23               | -0.08        | 16009   | -0.10              | -0.04        |  |
|              | 13511   | 1.08               | -0.07        | 15993   | 0.01               | -0.30        |  |
|              | 13528   | 1.64               | -0.06        | 13408   | 0.06               | 0.20         |  |
|              | 16017   | 0.09               | -0.06        | 16017   | 0.09               | -0.06        |  |
|              | 13530   | 1.35               | -0.06        | 16011   | 0.12               | -0.11        |  |
|              | 13527   | 1.08               | -0.06        | 14716   | 0.20               | 0.09         |  |
|              | 13464   | -1.61              | -0.04        | 15706   | 0.21               | -0.18        |  |
|              | 16009   | -0.10              | -0.04        | 13449   | 0.25               | 0.01         |  |
|              | 13535   | 2.38               | -0.04        | 13488   | 0.40               | 0.17         |  |
|              | 13451   | -0.11              | -0.04        | 13467   | 0.47               | -0.02        |  |
|              | 13531   | 2.11               | -0.03        | 13480   | 0.75               | -0.14        |  |
|              | 13520   | -0.31              | -0.03        | 13529   | 0.98               | 0.18         |  |
|              | 13510   | -1.06              | -0.03        | 13534   | 0.99               | 0.12         |  |
|              | 13539   | -0.63              | -0.03        | 13511   | 1.08               | -0.07        |  |
|              | 13484   | 2.41               | -0.02        | 13527   | 1.08               | -0.06        |  |
|              | 13467   | 0.47               | -0.02        | 13469   | 1.15               | -0.26        |  |
|              | 14714   | -0.37              | 0.00         | 15707   | 1.23               | -0.08        |  |
|              | 13518   | -1.94              | 0.00         | 16018   | 1.28               | -0.10        |  |
|              | 13449   | 0.25               | 0.01         | 13468   | 1.31               | 0.05         |  |
|              | 13465   | -0.93              | 0.03         | 13489   | 1.33               | 0.13         |  |
|              | 13481   | 1.68               | 0.03         | 13530   | 1.35               | -0.06        |  |
|              | 13532   | 1.51               | 0.03         | 15708   | 1.38               | -0.18        |  |
|              | 13519   | -1.12              | 0.04         | 13533   | 1.43               | -0.15        |  |
|              | 13482   | 2.46               | 0.05         | 13926   | 1.50               | 0.27         |  |
|              | 13468   | 1.31               | 0.05         | 13532   | 1.51               | 0.03         |  |
|              | 13450   | 1.77               | 0.06         | 14627   | 1.59               | 0.16         |  |
|              | 14716   | 0.20               | 0.09         | 16019   | 1.59               | -0.22        |  |
|              | 13534   | 0.99               | 0.12         | 13528   | 1.64               | -0.06        |  |

| Displacement<br>of Anchor<br>Items | Ancho   | r Items by Di      | splacement   | Anchor Items by Item Difficulty |                    |              |
|------------------------------------|---------|--------------------|--------------|---------------------------------|--------------------|--------------|
| Items                              | Item ID | Item<br>Difficulty | Displacement | Item ID                         | Item<br>Difficulty | Displacement |
|                                    | 13409   | -0.17              | 0.12         | 13481                           | 1.68               | 0.03         |
|                                    | 13541   | 2.13               | 0.13         | 13450                           | 1.77               | 0.06         |
|                                    | 14715   | -0.75              | 0.13         | 13540                           | 1.92               | -0.09        |
|                                    | 13489   | 1.33               | 0.13         | 13505                           | 1.96               | -0.08        |
|                                    | 13503   | 2.15               | 0.13         | 13531                           | 2.11               | -0.03        |
|                                    | 14627   | 1.59               | 0.16         | 13483                           | 2.13               | 0.22         |
|                                    | 13488   | 0.40               | 0.17         | 13541                           | 2.13               | 0.13         |
|                                    | 13529   | 0.98               | 0.18         | 13503                           | 2.15               | 0.13         |
|                                    | 14626   | -0.26              | 0.19         | 13535                           | 2.38               | -0.04        |
|                                    | 13408   | 0.06               | 0.20         | 13484                           | 2.41               | -0.02        |
|                                    | 13483   | 2.13               | 0.22         | 13482                           | 2.46               | 0.05         |
|                                    | 13926   | 1.50               | 0.27         | 13504                           | 2.57               | -0.10        |

## 2.7.2.4 Grades 6–8

Equating Summary: Read 6-8 S403 Online

| Comparison of |                | For       | m 403 |                                |            | Form 402       | 2                               |  |
|---------------|----------------|-----------|-------|--------------------------------|------------|----------------|---------------------------------|--|
| Forms         | No. of Ite     | ems       |       | rage Difficulty<br>(Std. Dev.) | No. of Ite |                | erage Difficulty<br>(Std. Dev.) |  |
|               | 72             |           |       | 1.18 (1.50)                    | 72         |                | 1.10 (1.46)                     |  |
|               | Easiest        | ;         |       | Hardest                        | Easiest    | ţ              | Hardest                         |  |
|               | -2.04          |           | 3.66  |                                | -2.04      |                | 3.78                            |  |
| Anchoring     | No. of Poss    |           |       | rage Difficulty                |            |                |                                 |  |
| Items         | Anchor         | s         |       | (Std. Dev.)                    |            |                |                                 |  |
|               | 60             |           |       | 0.89 (1.46)                    |            |                |                                 |  |
|               | No. of Anc     | hors      |       | rage Difficulty                |            |                |                                 |  |
|               | Used           |           |       | (Std. Dev.)                    |            |                |                                 |  |
|               | 57<br>Percenta | <b>GO</b> |       | 0.87 (1.44)                    |            |                |                                 |  |
|               | Anchor         | _         | п     | Average<br>visplacement        |            |                |                                 |  |
|               | 79%            |           | 0.00  |                                |            |                |                                 |  |
| Displacement  |                |           |       |                                |            |                |                                 |  |
| of Anchor     | Ancho          | r Items   | hv Di | splacement                     | Ancho      | r Items by Ite | m Difficulty                    |  |
| Items         |                | Iter      |       |                                |            | Item           |                                 |  |
|               | Item ID        | Diffic    |       | Displacement                   | Item ID    | Difficulty     | Displacement                    |  |
|               | 15713          | -1.1      | 16    | -0.21                          | 13554      | -2.04          | -0.07                           |  |
|               | 13630          | 1.8       | 4     | -0.19                          | 13575      | -1.58          | -0.14                           |  |
|               | 13555          | -1.3      | 30    | -0.18                          | 13566      | -1.37          | -0.15                           |  |
|               | 13604          | 1.8       | 7     | -0.16                          | 13555      | -1.30          | -0.18                           |  |
|               | 13566          | -1.3      | 37    | -0.15                          | 13565      | -1.25          | 0.13                            |  |
|               | 13963          | 1.9       | 4     | -0.15                          | 14641      | -1.23          | -0.04                           |  |
|               | 13629          | 0.7       | 8     | -0.14                          | 15713      | -1.16          | -0.21                           |  |
|               | 13575          | -1.5      | 58    | -0.14                          | 13573      | -1.03          | -0.05                           |  |
|               | 14491          | 1.7       | 2     | -0.13                          | 13564      | -0.98          | 0.09                            |  |
|               | 13657          | 1.6       | 2     | -0.13                          | 13572      | -0.68          | 0.05                            |  |
|               | 13962          | 1.3       | 9     | -0.12                          | 14640      | -0.55          | 0.04                            |  |
|               | 13585          | 0.5       | 7     | -0.12                          | 13563      | -0.52          | 0.02                            |  |
|               | 16023          | 0.2       | 4     | -0.12                          | 13574      | -0.52          | -0.02                           |  |
|               | 13631          | 0.8       | 4     | -0.11                          | 13576      | -0.48          | 0.09                            |  |
|               | 16022          | 0.1       | 9     | -0.11                          | 13567      | -0.34          | -0.03                           |  |

| Displacement |         |               |              |         |                    |              |
|--------------|---------|---------------|--------------|---------|--------------------|--------------|
| of Anchor    | Ancho   | r Items by Di | splacement   | Ancho   | r Items by Ite     | m Difficulty |
| Items        |         | Item          |              |         | ľ ľ                |              |
|              | Item ID | Difficulty    | Displacement | Item ID | Item<br>Difficulty | Displacement |
|              | 13554   | -2.04         | -0.07        | 13577   | -0.09              | 0.14         |
|              | 13573   | -1.03         | -0.05        | 13556   | -0.09              | -0.04        |
|              | 13587   | 0.31          | -0.05        | 16024   | -0.03              | -0.02        |
|              | 13618   | 3.13          | -0.05        | 13568   | 0.15               | 0.19         |
|              | 13658   | 3.59          | -0.05        | 16022   | 0.19               | -0.11        |
|              | 13556   | -0.09         | -0.04        | 16023   | 0.24               | -0.12        |
|              | 14641   | -1.23         | -0.04        | 13587   | 0.31               | -0.05        |
|              | 13588   | 0.78          | -0.03        | 14642   | 0.52               | 0.08         |
|              | 13614   | 1.95          | -0.03        | 13585   | 0.57               | -0.12        |
|              | 13650   | 1.09          | -0.03        | 13586   | 0.61               | 0.13         |
|              | 13567   | -0.34         | -0.03        | 13588   | 0.78               | -0.03        |
|              | 13574   | -0.52         | -0.02        | 13629   | 0.78               | -0.14        |
|              | 16024   | -0.03         | -0.02        | 13631   | 0.84               | -0.11        |
|              | 13589   | 1.93          | 0.01         | 13603   | 1.01               | 0.07         |
|              | 13656   | 2.35          | 0.02         | 13602   | 1.09               | 0.15         |
|              | 13616   | 2.67          | 0.02         | 13650   | 1.09               | -0.03        |
|              | 13563   | -0.52         | 0.02         | 13661   | 1.22               | 0.10         |
|              | 13651   | 2.53          | 0.02         | 13584   | 1.26               | 0.21         |
|              | 13615   | 2.21          | 0.03         | 13659   | 1.26               | 0.06         |
|              | 14640   | -0.55         | 0.04         | 13962   | 1.39               | -0.12        |
|              | 14618   | 2.75          | 0.04         | 13657   | 1.62               | -0.13        |
|              | 13617   | 3.33          | 0.04         | 14491   | 1.72               | -0.13        |
|              | 13572   | -0.68         | 0.05         | 14492   | 1.78               | 0.11         |
|              | 13659   | 1.26          | 0.06         | 13630   | 1.84               | -0.19        |
|              | 13603   | 1.01          | 0.07         | 13604   | 1.87               | -0.16        |
|              | 14642   | 0.52          | 0.08         | 13660   | 1.89               | 0.11         |
|              | 13564   | -0.98         | 0.09         | 13589   | 1.93               | 0.01         |
|              | 13576   | -0.48         | 0.09         | 13963   | 1.94               | -0.15        |
|              | 13964   | 2.02          | 0.09         | 13614   | 1.95               | -0.03        |
|              | 14493   | 2.61          | 0.09         | 13964   | 2.02               | 0.09         |

| Displacement<br>of Anchor<br>Items | Ancho   | r Items by Di      | splacement   | Anchor Items by Item Difficulty |                    |              |  |
|------------------------------------|---------|--------------------|--------------|---------------------------------|--------------------|--------------|--|
| Items                              | Item ID | Item<br>Difficulty | Displacement | Item ID                         | Item<br>Difficulty | Displacement |  |
|                                    | 13661   | 1.22               | 0.10         | 13615                           | 2.21               | 0.03         |  |
|                                    | 13660   | 1.89               | 0.11         | 13656                           | 2.35               | 0.02         |  |
|                                    | 14492   | 1.78               | 0.11         | 13652                           | 2.41               | 0.12         |  |
|                                    | 13652   | 2.41               | 0.12         | 14616                           | 2.52               | 0.15         |  |
|                                    | 13586   | 0.61               | 0.13         | 13651                           | 2.53               | 0.02         |  |
|                                    | 13565   | -1.25              | 0.13         | 14493                           | 2.61               | 0.09         |  |
|                                    | 13577   | -0.09              | 0.14         | 13616                           | 2.67               | 0.02         |  |
|                                    | 13602   | 1.09               | 0.15         | 14618                           | 2.75               | 0.04         |  |
|                                    | 14616   | 2.52               | 0.15         | 13619                           | 3.03               | 0.19         |  |
|                                    | 13568   | 0.15               | 0.19         | 13618                           | 3.13               | -0.05        |  |
|                                    | 13619   | 3.03               | 0.19         | 13617                           | 3.33               | 0.04         |  |
|                                    | 13584   | 1.26               | 0.21         | 13658                           | 3.59               | -0.05        |  |

## 2.7.2.5 Grades 9–12

Equating Summary: Read 9-12 S403 Online

| Comparison of             |             | Form 4       | )3                               |                                 | For    | m 402   |                                |
|---------------------------|-------------|--------------|----------------------------------|---------------------------------|--------|---------|--------------------------------|
| Forms                     | No. of Ite  |              | verage Difficulty<br>(Std. Dev.) | No. of Ite                      | ems    |         | rage Difficulty<br>(Std. Dev.) |
|                           | 72          |              | 1.94 (1.34)                      | 72                              |        |         | 1.91 (1.33)                    |
|                           | Easiest     | ;            | Hardest                          | Easiest                         |        | Hardest |                                |
|                           | -1.77       |              | 4.30                             | -1.77                           |        | 4.58    |                                |
| Anchoring                 | No. of Poss | sible A      | verage Difficulty                |                                 |        |         |                                |
| Items                     | Anchor      | s            | (Std. Dev.)                      |                                 |        |         |                                |
|                           | 60          |              | 1.71 (1.32)                      |                                 |        |         |                                |
|                           | No. of Anc  | hors A       | verage Difficulty                |                                 |        |         |                                |
|                           | Used        |              | (Std. Dev.)                      |                                 |        |         |                                |
|                           | 58          |              | 1.64 (1.29)                      |                                 |        |         |                                |
|                           | Percenta    | -            | Average                          |                                 |        |         |                                |
|                           | Anchor      | s            | Displacement                     |                                 |        |         |                                |
|                           | 81%         |              | 0.00                             |                                 |        |         |                                |
| Displacement<br>of Anchor |             |              |                                  |                                 |        |         |                                |
| Items                     | Ancho       | r Items by l | Displacement                     | Anchor Items by Item Difficulty |        |         |                                |
|                           |             | Item         |                                  |                                 | Iter   |         |                                |
|                           | Item ID     | Difficulty   | Displacement                     | Item ID                         | Diffic | ulty    | Displacement                   |
|                           | 13733       | 2.87         | -0.24                            | 13674                           | -1.7   | 77      | -0.15                          |
|                           | 13693       | 1.19         | -0.22                            | 13767                           | -0.8   | 39      | 0.19                           |
|                           | 16064       | 1.45         | -0.20                            | 13680                           | -0.4   | 16      | -0.16                          |
|                           | 13689       | 0.26         | -0.20                            | 13677                           | -0.3   | 32      | -0.03                          |
|                           | 13950       | 1.41         | -0.20                            | 13690                           | 0.1    | 0       | -0.02                          |
|                           | 13676       | 1.32         | -0.18                            | 13675                           | 0.1    | 2       | 0.08                           |
|                           | 13680       | -0.46        | -0.16                            | 13692                           | 0.1    | 2       | -0.13                          |
|                           | 13674       | -1.77        | -0.15                            | 13678                           | 0.1    | 6       | 0.11                           |
|                           | 13744       | 0.60         | -0.14                            | 13743                           | 0.2    | 6       | 0.06                           |
|                           | 16072       | 3.26         | -0.14                            | 13689                           | 0.2    | 6       | -0.20                          |
|                           | 13692       | 0.12         | -0.13                            | 16062                           | 0.5    | 3       | -0.12                          |
|                           | 13723       | 2.82         | -0.12                            | 13681                           | 0.5    | 5       | -0.06                          |
|                           | 16062       | 0.53         | -0.12                            | 13744                           | 0.6    | 0       | -0.14                          |
|                           | 16063       | 0.98         | -0.12                            | 16058                           | 0.6    | 2       | -0.08                          |
|                           | 13969       | 3.47         | -0.11                            | 16059                           | 0.6    | 7       | -0.02                          |

| Displacement |         |               |              |         |                |              |
|--------------|---------|---------------|--------------|---------|----------------|--------------|
| of Anchor    | Ancho   | r Items by Di | splacement   | Ancho   | r Items by Ite | m Difficulty |
| Items        |         | Item          |              |         | Item           |              |
|              | Item ID | Difficulty    | Displacement | Item ID | Difficulty     | Displacement |
|              | 16058   | 0.62          | -0.08        | 13682   | 0.77           | 0.12         |
|              | 13679   | 0.86          | -0.08        | 13704   | 0.80           | 0.21         |
|              | 13722   | 2.50          | -0.08        | 13679   | 0.86           | -0.08        |
|              | 16070   | 2.65          | -0.07        | 16063   | 0.98           | -0.12        |
|              | 13769   | 2.14          | -0.06        | 13745   | 1.04           | 0.03         |
|              | 13681   | 0.55          | -0.06        | 13694   | 1.14           | 0.05         |
|              | 13968   | 2.61          | -0.04        | 13693   | 1.19           | -0.22        |
|              | 13786   | 4.30          | -0.03        | 13698   | 1.20           | 0.21         |
|              | 13677   | -0.32         | -0.03        | 13705   | 1.29           | 0.20         |
|              | 13708   | 2.16          | -0.03        | 13676   | 1.32           | -0.18        |
|              | 16059   | 0.67          | -0.02        | 13950   | 1.41           | -0.20        |
|              | 13690   | 0.10          | -0.02        | 16064   | 1.45           | -0.20        |
|              | 14635   | 3.35          | -0.01        | 13699   | 1.48           | 0.02         |
|              | 14975   | 1.87          | 0.00         | 13691   | 1.49           | 0.11         |
|              | 13952   | 1.92          | 0.01         | 13707   | 1.60           | 0.17         |
|              | 13731   | 3.95          | 0.01         | 14975   | 1.87           | 0.00         |
|              | 16071   | 2.36          | 0.02         | 13952   | 1.92           | 0.01         |
|              | 13699   | 1.48          | 0.02         | 13706   | 1.94           | 0.20         |
|              | 13951   | 2.69          | 0.02         | 16060   | 2.00           | 0.29         |
|              | 14636   | 3.11          | 0.02         | 13768   | 2.02           | 0.11         |
|              | 13745   | 1.04          | 0.03         | 13700   | 2.04           | 0.18         |
|              | 13724   | 3.96          | 0.05         | 14634   | 2.09           | 0.24         |
|              | 13694   | 1.14          | 0.05         | 13769   | 2.14           | -0.06        |
|              | 13743   | 0.26          | 0.06         | 13708   | 2.16           | -0.03        |
|              | 13709   | 2.72          | 0.07         | 16071   | 2.36           | 0.02         |
|              | 13970   | 2.85          | 0.07         | 13722   | 2.50           | -0.08        |
|              | 13787   | 3.69          | 0.07         | 13785   | 2.54           | 0.26         |
|              | 13675   | 0.12          | 0.08         | 13968   | 2.61           | -0.04        |
|              | 13678   | 0.16          | 0.11         | 16070   | 2.65           | -0.07        |
|              | 13768   | 2.02          | 0.11         | 13951   | 2.69           | 0.02         |

| Displacement<br>of Anchor<br>Items | Ancho   | r Items by Di      | splacement   | Anchor Items by Item Difficulty |                    |              |  |
|------------------------------------|---------|--------------------|--------------|---------------------------------|--------------------|--------------|--|
| Items                              | Item ID | Item<br>Difficulty | Displacement | Item ID                         | Item<br>Difficulty | Displacement |  |
|                                    | 13691   | 1.49               | 0.11         | 13709                           | 2.72               | 0.07         |  |
|                                    | 13682   | 0.77               | 0.12         | 13723                           | 2.82               | -0.12        |  |
|                                    | 13732   | 2.92               | 0.14         | 13970                           | 2.85               | 0.07         |  |
|                                    | 13707   | 1.60               | 0.17         | 13733                           | 2.87               | -0.24        |  |
|                                    | 13700   | 2.04               | 0.18         | 13732                           | 2.92               | 0.14         |  |
|                                    | 13767   | -0.89              | 0.19         | 14636                           | 3.11               | 0.02         |  |
|                                    | 13706   | 1.94               | 0.20         | 16072                           | 3.26               | -0.14        |  |
|                                    | 13705   | 1.29               | 0.20         | 14635                           | 3.35               | -0.01        |  |
|                                    | 13698   | 1.20               | 0.21         | 13969                           | 3.47               | -0.11        |  |
|                                    | 13704   | 0.80               | 0.21         | 13787                           | 3.69               | 0.07         |  |
|                                    | 14634   | 2.09               | 0.24         | 13731                           | 3.95               | 0.01         |  |
|                                    | 13785   | 2.54               | 0.26         | 13724                           | 3.96               | 0.05         |  |
|                                    | 16060   | 2.00               | 0.29         | 13786                           | 4.30               | -0.03        |  |

# 2.7.3 Writing

2.7.3.1 Grade 1

#### Table 2.7.3.1.1

Equating Summary: Writ 1 A S403 Online

| Comparison of      |                      | Form 4            | 103     |                                |           | Form 402           |                                 |  |  |
|--------------------|----------------------|-------------------|---------|--------------------------------|-----------|--------------------|---------------------------------|--|--|
| Forms*             | No. of Tasl          |                   |         | rage Difficulty<br>(Std. Dev.) | No. of Ta | Ave                | erage Difficulty<br>(Std. Dev.) |  |  |
|                    | 4                    |                   |         | -2.17 (3.40)                   | 4         |                    | -2.17 (3.40)                    |  |  |
|                    | Easiest              |                   | Hardest |                                | Easiest   | ;                  | Hardest                         |  |  |
|                    | -7.22                | 2                 |         | -0.07                          | -7.22     |                    | -0.07                           |  |  |
| Anchoring          | No. of Possi         | ble 4             | Ave     | rage Difficulty                |           |                    |                                 |  |  |
| Tasks              | Anchors              |                   |         | (Std. Dev.)                    |           |                    |                                 |  |  |
|                    | 4                    |                   |         | -2.17 (3.40)                   |           |                    |                                 |  |  |
|                    | No. of Anch          | iors 4            |         | rage Difficulty                |           |                    |                                 |  |  |
|                    | Used                 |                   |         | (Std. Dev.)                    |           |                    |                                 |  |  |
|                    | 4<br>Banaanta a      |                   |         | -2.17 (3.40)                   |           |                    |                                 |  |  |
|                    | Percentag<br>Anchors |                   | Б       | Average<br>isplacement         |           |                    |                                 |  |  |
|                    | 100%                 |                   |         | -0.06                          |           |                    |                                 |  |  |
| Rating Scale       |                      |                   |         |                                |           |                    |                                 |  |  |
| Step               | An                   | chored Sc         | ale     | Steps                          |           |                    |                                 |  |  |
| Measures by        | Task                 | Step              |         | Measure                        |           |                    |                                 |  |  |
| Task               |                      | 1                 |         | -3.80                          |           |                    |                                 |  |  |
|                    | Task 2               | 2                 |         | 3.89                           |           |                    |                                 |  |  |
|                    |                      | 3                 |         | -0.09                          |           |                    |                                 |  |  |
|                    |                      | 1                 |         | -2.47                          |           |                    |                                 |  |  |
|                    |                      | 2                 |         | -2.78                          |           |                    |                                 |  |  |
|                    |                      | 3                 |         | -2.61                          |           |                    |                                 |  |  |
|                    |                      | 4                 |         | -1.68                          |           |                    |                                 |  |  |
|                    | Task 3/Task 4        | 5                 |         | -0.48                          |           |                    |                                 |  |  |
|                    |                      | 6                 |         | 0.97                           |           |                    |                                 |  |  |
|                    |                      | 7                 |         | 2.25                           |           |                    |                                 |  |  |
|                    |                      | 8                 |         | 3.21                           |           |                    |                                 |  |  |
|                    |                      | 9                 |         | 3.59                           |           |                    |                                 |  |  |
| Displacement       | Anchor               | <u>Tasks by</u>   | Dis     | placement                      | Anchor    | Tasks by Tas       | sk Difficulty                   |  |  |
| of Anchor<br>Tasks | Task ID              | Task<br>Difficult | ty      | Displacement                   | Task ID   | Task<br>Difficulty | Displacement                    |  |  |
|                    | 14775                | -1.11             |         | -0.27                          | 14245     | -7.22              | 0.07                            |  |  |
|                    | 15919                | -0.07             |         | -0.06                          | 14775     | -1.11              | -0.27                           |  |  |
|                    | 14248                | -0.27             |         | 0.03                           | 14248     | -0.27              | 0.03                            |  |  |
|                    | 14245                | -7.22             |         | 0.07                           | 15919     | -0.07              | -0.06                           |  |  |

Equating Summary: Writ 1 B/C S403 Online

| Comparison of          |                            | For                | m 403        |                                |                                 | Form 402           |                                 |  |
|------------------------|----------------------------|--------------------|--------------|--------------------------------|---------------------------------|--------------------|---------------------------------|--|
| Forms*                 | No. of Ta                  | sks                |              | rage Difficulty<br>(Std. Dev.) | No. of Ta                       |                    | erage Difficulty<br>(Std. Dev.) |  |
|                        | 3                          |                    | -0.10 (0.45) |                                | 3                               |                    | 0.12 (0.47)                     |  |
|                        | Easiest                    |                    |              | Hardest                        | Easiest                         | ,                  | Hardest                         |  |
|                        | -0.60                      |                    |              | 0.25                           | -0.40                           |                    | 0.52                            |  |
| Anchoring<br>Tasks     | No. of Possible<br>Anchors |                    |              | rage Difficulty<br>(Std. Dev.) |                                 |                    |                                 |  |
|                        | 1                          |                    |              | 0.25 (N/A)                     |                                 |                    |                                 |  |
|                        | No. of Anc                 | hors               | Ave          | rage Difficulty                |                                 |                    |                                 |  |
|                        | Used                       |                    |              | (Std. Dev.)                    |                                 |                    |                                 |  |
|                        | 1                          |                    |              | 0.25 (N/A)                     |                                 |                    |                                 |  |
|                        |                            | Percentage Average |              |                                |                                 |                    |                                 |  |
|                        | Anchor                     | 'S                 | D            | isplacement                    |                                 |                    |                                 |  |
| ~                      | 33%                        |                    |              | 0.00                           |                                 |                    |                                 |  |
| Common<br>Rating Scale | Aı                         | nchored            | Scale        | Steps                          |                                 |                    |                                 |  |
| Step<br>Measures       | Step                       |                    |              | Measure                        |                                 |                    |                                 |  |
| wieasures              | 1                          |                    | -2.47        |                                |                                 |                    |                                 |  |
|                        | 2                          |                    | -2.78        |                                |                                 |                    |                                 |  |
|                        | 3                          |                    | -2.61        |                                |                                 |                    |                                 |  |
|                        | 4                          |                    | -1.68        |                                |                                 |                    |                                 |  |
|                        | 5                          |                    |              | -0.48                          |                                 |                    |                                 |  |
|                        | 6                          |                    | 0.97         |                                |                                 |                    |                                 |  |
|                        | 7                          |                    | 2.25         |                                |                                 |                    |                                 |  |
|                        | 8                          |                    | 3.21         |                                |                                 |                    |                                 |  |
|                        | 9                          |                    |              | 3.59                           |                                 |                    |                                 |  |
| Displacement           | Ancho                      | r Tasks            | by Di        | splacement                     | Anchor Tasks by Task Difficulty |                    |                                 |  |
| of Anchor<br>Tasks     | Task ID                    | Tas<br>Diffic      |              | Displacement                   | Task ID                         | Task<br>Difficulty | Displacement                    |  |
|                        |                            |                    |              | -                              |                                 | ~                  | -                               |  |

## 2.7.3.2 Grades 2–3

Equating Summary: Writ 2-3 A S403 Online

| Comparison of             |                       | For           | -m 403                     |                                 |               | Form 40            | 2                                |  |  |
|---------------------------|-----------------------|---------------|----------------------------|---------------------------------|---------------|--------------------|----------------------------------|--|--|
| Forms*                    | No. of Ta             | eke           | Ave                        | erage Difficulty<br>(Std. Dev.) | No. of Ta     |                    | verage Difficulty<br>(Std. Dev.) |  |  |
|                           | 3                     | 343           |                            | 0.14 (0.13)                     | 3             | 515                | -0.02 (0.26)                     |  |  |
|                           |                       |               |                            | , í,                            |               |                    |                                  |  |  |
|                           | Easiest               | [             |                            | Hardest                         | Easiest -0.23 |                    | Hardest<br>0.27                  |  |  |
| A                         | 0.01<br>No. of Poss   |               | 0.27<br>Average Difficulty |                                 | -0.23         |                    | 0.27                             |  |  |
| Anchoring<br>Tasks        | No. of Poss<br>Anchor |               | Ave                        | (Std. Dev.)                     |               |                    |                                  |  |  |
|                           | 1                     |               |                            | 0.27 (N/A)                      |               |                    |                                  |  |  |
|                           | No. of Anc            | hors          | Ave                        | rage Difficulty                 |               |                    |                                  |  |  |
|                           | Used                  |               |                            | (Std. Dev.)                     |               |                    |                                  |  |  |
|                           | 1                     |               |                            | 0.27 (N/A)                      |               |                    |                                  |  |  |
|                           | Percenta              | -             |                            | Average                         |               |                    |                                  |  |  |
|                           | Anchor                | s             | Displacement               |                                 |               |                    |                                  |  |  |
|                           | 33%                   |               |                            | 0.00                            |               |                    |                                  |  |  |
| Common<br>Rating Scale    | Aı                    | nchored       | l Scale                    | Steps                           |               |                    |                                  |  |  |
| Step<br>Measures          | Step                  |               |                            | Measure                         |               |                    |                                  |  |  |
| Witasui Cs                | 1                     |               | -2.47                      |                                 |               |                    |                                  |  |  |
|                           | 2                     |               | -2.78                      |                                 |               |                    |                                  |  |  |
|                           | 3                     |               | -2.61                      |                                 |               |                    |                                  |  |  |
|                           | 4                     |               |                            | -1.68                           |               |                    |                                  |  |  |
|                           | 5                     |               |                            | -0.48                           |               |                    |                                  |  |  |
|                           | 6                     |               |                            | 0.97                            |               |                    |                                  |  |  |
|                           | 7                     |               |                            | 2.25                            |               |                    |                                  |  |  |
|                           | 8                     |               |                            | 3.21                            |               |                    |                                  |  |  |
|                           | 9                     |               |                            | 3.59                            |               |                    |                                  |  |  |
| Displacement<br>of Anchor | -                     | r Tasks       | by Di                      | splacement                      | Anchor        | Tasks by Ta        | ask Difficulty                   |  |  |
| of Anchor<br>Tasks        | Task ID               | Tas<br>Diffic |                            | Displacement                    | Task ID       | Task<br>Difficulty | Displacement                     |  |  |
|                           | 14792                 | 0.2           |                            | 0.00                            | 14792         | 0.27               | 0.00                             |  |  |

Equating Summary: Writ 2-3 B/C S403 Online

| Comparison of          |                       | For           | m 403   |                                |           | Form 402           | 2                                 |  |  |
|------------------------|-----------------------|---------------|---------|--------------------------------|-----------|--------------------|-----------------------------------|--|--|
| Forms*                 | No. of Ta             | sks           | Ave     | rage Difficulty<br>(Std. Dev.) | No. of Ta |                    | Average Difficulty<br>(Std. Dev.) |  |  |
|                        | 3                     |               |         | 0.86 (0.07)                    | 3         |                    | 1.02 (0.14)                       |  |  |
|                        | Easiest               |               | Hardest |                                | Easiest   | ;                  | Hardest                           |  |  |
|                        | 0.80                  |               |         | 0.94                           | 0.94      |                    | 1.19                              |  |  |
| Anchoring<br>Tasks     | No. of Poss<br>Anchor |               | Ave     | rage Difficulty<br>(Std. Dev.) |           |                    |                                   |  |  |
|                        | 1                     |               |         | 0.94 (N/A)                     |           |                    |                                   |  |  |
|                        | No. of Anc            | hors          | Ave     | rage Difficulty                |           |                    |                                   |  |  |
|                        | Used                  |               |         | (Std. Dev.)                    |           |                    |                                   |  |  |
|                        | 1                     |               |         | 0.94 (N/A)                     |           |                    |                                   |  |  |
|                        | Percenta              | 0             |         | Average                        |           |                    |                                   |  |  |
|                        | Anchor                | s             | D       | isplacement                    |           |                    |                                   |  |  |
|                        | 33%                   |               |         | 0.00                           |           |                    |                                   |  |  |
| Common<br>Rating Scale | Aı                    | nchored       | Scale   | Steps                          |           |                    |                                   |  |  |
| Step<br>Measures       | Step                  |               |         | Measure                        |           |                    |                                   |  |  |
| ivicasui es            | 1                     |               | -2.47   |                                |           |                    |                                   |  |  |
|                        | 2                     |               | -2.78   |                                |           |                    |                                   |  |  |
|                        | 3                     |               | -2.61   |                                |           |                    |                                   |  |  |
|                        | 4                     |               |         | -1.68                          |           |                    |                                   |  |  |
|                        | 5                     |               |         | -0.48                          |           |                    |                                   |  |  |
|                        | 6                     |               | 0.97    |                                |           |                    |                                   |  |  |
|                        | 7                     |               |         | 2.25                           |           |                    |                                   |  |  |
|                        | 8                     |               | 3.21    |                                |           |                    |                                   |  |  |
|                        | 9                     |               |         | 3.59                           |           |                    |                                   |  |  |
| Displacement           | Ancho                 | r Tasks       | by Di   | splacement                     | Anchor    | Tasks by Ta        | sk Difficulty                     |  |  |
| of Anchor<br>Tasks     | Task ID               | Tas<br>Diffic | k       | Displacement                   | Task ID   | Task<br>Difficulty | Displacement                      |  |  |
|                        | 15549                 | 0.9           |         | 0.00                           | 15549     | 0.94               | 0.00                              |  |  |

## 2.7.3.3 Grades 4–5

## Table 2.7.3.3.1

Equating Summary: Writ 4-5 A S403 Online

| Comparison of          |                       | For           | m 403 |                                |             | Form 402           |                                 |
|------------------------|-----------------------|---------------|-------|--------------------------------|-------------|--------------------|---------------------------------|
| Forms*                 | No. of Tas            | sks           | Ave   | rage Difficulty<br>(Std. Dev.) | No. of Tas  |                    | erage Difficulty<br>(Std. Dev.) |
|                        | 3                     |               |       | 1.18 (0.15)                    | 3           |                    | 1.31 (0.12)                     |
|                        | Easiest               |               |       | Hardest                        | Easiest     |                    | Hardest                         |
|                        | 1.05                  |               |       | 1.34                           | 1.19        |                    | 1.41                            |
| Anchoring<br>Tasks     | No. of Poss<br>Anchor |               | Ave   | rage Difficulty<br>(Std. Dev.) |             |                    |                                 |
|                        | 1                     |               |       | 1.34 (N/A)                     |             |                    |                                 |
|                        | No. of Anc            | hors          | Ave   | rage Difficulty                |             |                    |                                 |
|                        | Used                  |               |       | (Std. Dev.)                    |             |                    |                                 |
|                        | 1                     |               |       | 1.34 (N/A)                     |             |                    |                                 |
|                        | Percenta              | -             |       | Average                        |             |                    |                                 |
|                        | Anchor                | s             | D     | visplacement                   |             |                    |                                 |
| ~                      | 33%                   |               |       | 0.00                           |             |                    |                                 |
| Common<br>Rating Scale | Ar                    | nchored       | Scale | Steps                          |             |                    |                                 |
| Step                   |                       |               |       | -                              |             |                    |                                 |
| Measures               | Step                  | Step          |       | Measure                        |             |                    |                                 |
|                        | 1                     |               | -2.47 |                                |             |                    |                                 |
|                        | 2                     |               | -2.78 |                                |             |                    |                                 |
|                        | 3                     |               |       | -2.61                          |             |                    |                                 |
|                        | 4                     |               |       | -1.68                          |             |                    |                                 |
|                        | 5                     |               |       | -0.48                          |             |                    |                                 |
|                        | 6                     |               |       | 0.97                           |             |                    |                                 |
|                        | 7                     |               |       | 2.25                           |             |                    |                                 |
|                        | 8                     |               | 3.21  |                                |             |                    |                                 |
|                        | 9                     |               |       | 3.59                           |             |                    |                                 |
| Displacement           | Anchor                | · Tasks       | by Di | splacement                     | Anchor      | Tasks by Ta        | sk Difficulty                   |
| of Anchor<br>Tasks     | Task ID               | Tas<br>Diffic |       | Displacement                   | Task ID     | Task<br>Difficulty | Displacement                    |
|                        | 15397_17212           | 1.3           |       | 0.00                           | 15397_17212 | 1.34               | 0.00                            |

## Table 2.7.3.3.2

Equating Summary: Writ 4-5 B/C S403 Online

| Comparison of          |                            | For  | m 403   | 1                              |             | Form 402           | 2                               |  |
|------------------------|----------------------------|--|---------|--------------------------------|-------------|--------------------|---------------------------------|--|
| Forms*                 | No. of Tas                 | sks  | Ave     | rage Difficulty<br>(Std. Dev.) | No. of Tas  |                    | erage Difficulty<br>(Std. Dev.) |  |
|                        | 3                          |  |         | 1.85 (0.41)                    | 3           |                    | 1.81 (0.27)                     |  |
|                        | Easiest                    |  | Hardest |                                | Easiest     |                    | Hardest                         |  |
|                        | 1.39                       |  |         | 2.17                           | 1.51        |                    | 2.00                            |  |
| Anchoring<br>Tasks     | No. of Possible<br>Anchors |  | Ave     | rage Difficulty<br>(Std. Dev.) |             |                    |                                 |  |
|                        | 1                          |  |         | 2.00 (N/A)                     |             |                    |                                 |  |
|                        | No. of Ancl                | nors                                       | Ave     | rage Difficulty                |             |                    |                                 |  |
|                        | Used                       |  |         | (Std. Dev.)                    |             |                    |                                 |  |
|                        | 1                          |  |         | 2.00 (N/A)                     |             |                    |                                 |  |
|                        |                            | Percentage Average<br>Anchors Displacement |         |                                |             |                    |                                 |  |
|                        |                            | 8  | D       | visplacement                   |             |                    |                                 |  |
| G                      | 33%                        |  |         | 0.00                           |             |                    |                                 |  |
| Common<br>Rating Scale | An                         | chored                                     | Scale   | Steps                          |             |                    |                                 |  |
| Step<br>Measures       | Step                       |  |         | Measure                        |             |                    |                                 |  |
| ivitasui es            | 1                          |  | -2.47   |                                |             |                    |                                 |  |
|                        | 2                          |  | -2.78   |                                |             |                    |                                 |  |
|                        | 3                          |  | -2.61   |                                |             |                    |                                 |  |
|                        | 4                          |  | -1.68   |                                |             |                    |                                 |  |
|                        | 5                          |  | -0.48   |                                |             |                    |                                 |  |
|                        | 6                          |  |         | 0.97                           |             |                    |                                 |  |
|                        | 7                          |  |         | 2.25                           |             |                    |                                 |  |
|                        | 8                          |  | 3.21    |                                |             |                    |                                 |  |
|                        | 9                          |  |         | 3.59                           |             |                    |                                 |  |
| Displacement           | Anchor                     | Tasks                                      | by Di   | splacement                     | Anchor      | Tasks by Ta        | sk Difficulty                   |  |
| of Anchor<br>Tasks     | Task ID                    | Tas<br>Diffic                              | sk      | Displacement                   | Task ID     | Task<br>Difficulty | Displacement                    |  |
|                        | 15416_17207                | 2.0  |         | 0.00                           | 15416_17207 | 2.00               | 0.00                            |  |

## 2.7.3.4 Grades 6–8

## Table 2.7.3.4.1

Equating Summary: Writ 6-8 A S403 Online

| Comparison of          |                         | Form 4                       | 03    |                                |             | Form 402                            |                                 |
|------------------------|-------------------------|------------------------------|-------|--------------------------------|-------------|-------------------------------------|---------------------------------|
| Forms*                 | No. of Tasks            |                              |       | rage Difficulty<br>(Std. Dev.) | No. of Tas  |                                     | erage Difficulty<br>(Std. Dev.) |
|                        | 3                       |                              |       | 0.93 (0.47)                    | 3           |                                     | 0.97 (0.40)                     |
|                        | Easiest                 |                              |       | Hardest                        | Easiest     |                                     | Hardest                         |
|                        | 0.48                    |                              |       | 1.41                           | 0.64        |                                     | 1.41                            |
| Anchoring<br>Tasks     | No. of Possi<br>Anchors | ble                          |       | rage Difficulty<br>(Std. Dev.) |             |                                     |                                 |
|                        | 1                       |                              |       | 1.41 (N/A)                     |             |                                     |                                 |
|                        | No. of Anchors          | s Used                       |       | rage Difficulty<br>(Std. Dev.) |             |                                     |                                 |
|                        | 1                       |                              |       | 1.41 (N/A)                     |             |                                     |                                 |
|                        | Percentage An           | chors                        | D     | Average<br>isplacement         |             |                                     |                                 |
|                        | 33%                     |                              |       | 0.00                           |             |                                     |                                 |
| Common<br>Rating Scale | And                     | chored Sc                    | ale S | Steps                          |             |                                     |                                 |
| Step                   | Step                    |                              |       | Measure                        |             |                                     |                                 |
| Measures               | 1                       |                              | -2.47 |                                |             |                                     |                                 |
|                        | 2                       |                              | -2.78 |                                |             |                                     |                                 |
|                        | 3                       |                              | -2.61 |                                |             |                                     |                                 |
|                        | 4                       |                              |       | -1.68                          |             |                                     |                                 |
|                        | 5                       |                              |       | -0.48                          |             |                                     |                                 |
|                        | 6                       |                              | 0.97  |                                |             |                                     |                                 |
|                        | 7                       |                              | 2.25  |                                |             |                                     |                                 |
|                        | 8                       |                              | 3.21  |                                |             |                                     |                                 |
| Displacement           | 9<br>Anchor             | Tacks by                     | Dier  | 3.59<br>Diacement              | Anchor      | Fasks by Tas                        | k Difficulty                    |
| of Anchor<br>Tasks     | Task ID                 | Tasks by<br>Task<br>Difficul |       | Displacement                   | Task ID     | Tasks by Task<br>Task<br>Difficulty | Displacement                    |
|                        | 14786_17188             | 1.41                         | ~     | 0.00                           | 14786_17188 | 1.41                                | 0.00                            |

Equating Summary: Writ 6-8 B/C S403 Online

| Comparison of          |                          | Form 4            | 03                               |             | Form 402           |                                 |
|------------------------|--------------------------|-------------------|----------------------------------|-------------|--------------------|---------------------------------|
| Forms*                 | No. of Task              |                   | verage Difficulty<br>(Std. Dev.) | No. of Tas  |                    | erage Difficulty<br>(Std. Dev.) |
|                        | 3                        |                   | 1.40 (0.23)                      | 3           |                    | 1.30 (0.20)                     |
|                        | Easiest                  |                   | Hardest                          | Easiest     |                    | Hardest                         |
|                        | 1.13                     |                   | 1.56                             | 1.10        |                    | 1.49                            |
| Anchoring<br>Tasks     | No. of Possil<br>Anchors | ble A             | Verage Difficulty<br>(Std. Dev.) |             |                    |                                 |
|                        | 1                        |                   | 1.49 (N/A)                       |             |                    |                                 |
|                        | No. of Anchors           | Used A            | Verage Difficulty<br>(Std. Dev.) |             |                    |                                 |
|                        | 1                        |                   | 1.49 (N/A)                       |             |                    |                                 |
|                        | Percentage And           | chors             | Average<br>Displacement          | _           |                    |                                 |
|                        | 33%                      |                   | 0.00                             |             |                    |                                 |
| Common<br>Rating Scale | And                      | hored Sca         |                                  |             |                    |                                 |
| Step                   | Step                     |                   | Measure                          |             |                    |                                 |
| Measures               | 1                        |                   | -2.47                            |             |                    |                                 |
|                        | 2                        |                   | -2.78                            |             |                    |                                 |
|                        | 3                        |                   | -2.61                            |             |                    |                                 |
|                        | 4                        |                   | -1.68                            | _           |                    |                                 |
|                        | 5                        |                   | -0.48                            | _           |                    |                                 |
|                        | 6                        |                   | 0.97                             |             |                    |                                 |
|                        | 7                        |                   | 2.25                             |             |                    |                                 |
|                        | 8                        |                   | 3.21                             | _           |                    |                                 |
|                        | 9                        |                   | 3.59                             |             |                    |                                 |
| Displacement           | Anchor 7                 | Tasks by I        | Displacement                     | Anchor      | Tasks by Tas       | k Difficulty                    |
| of Anchor<br>Tasks     | Task ID                  | Task<br>Difficult |                                  | Task ID     | Task<br>Difficulty | Displacement                    |
|                        | 15418_17176              | 1.49              | 0.00                             | 15418_17176 | 1.49               | 0.00                            |

### 2.7.3.5 Grades 9–12

#### Table 2.7.3.5.1

Equating Summary: Writ 9-12 A S403 Online

| Comparison of      |                         | Form 4           | 403      |                                | Form 402    |                    |                                 |  |
|--------------------|-------------------------|------------------|----------|--------------------------------|-------------|--------------------|---------------------------------|--|
| Forms*             | No. of Tas              |                  |          | rage Difficulty<br>(Std. Dev.) | No. of Tas  |                    | erage Difficulty<br>(Std. Dev.) |  |
|                    | 3                       | <u> </u>         |          | 2.00 (0.31)                    | 3           | N5                 | 2.07 (0.36)                     |  |
|                    |                         |                  |          |                                |             |                    | · /                             |  |
|                    | Easiest                 |                  |          | Hardest                        | Easiest     |                    | Hardest                         |  |
| A h                | 1.64<br>No. of Possi    | L. I             | A        | 2.19                           | 1.68        |                    | 2.36                            |  |
| Anchoring<br>Tasks | No. of Possi<br>Anchors | bie              |          | rage Difficulty<br>(Std. Dev.) |             |                    |                                 |  |
|                    | 1                       |                  |          | 2.17 (N/A)                     |             |                    |                                 |  |
|                    | No. of Anchor           | s Used           |          | rage Difficulty<br>(Std. Dev.) |             |                    |                                 |  |
|                    | 1                       |                  |          | 2.17 (N/A)                     |             |                    |                                 |  |
|                    | Percentage Anchors      |                  | л        | Average<br>isplacement         |             |                    |                                 |  |
|                    | 33%                     |                  | <u> </u> | 0.00                           |             |                    |                                 |  |
| Common             | 3370                    |                  |          | 0.00                           |             |                    |                                 |  |
| Rating Scale       | Anchored Scale Steps    |                  |          |                                |             |                    |                                 |  |
| Step<br>Measures   | Step                    |                  |          | Measure                        |             |                    |                                 |  |
| Measures           | 1                       |                  | -2.47    |                                |             |                    |                                 |  |
|                    | 2                       |                  | -2.78    |                                |             |                    |                                 |  |
|                    | 3                       |                  | -2.61    |                                |             |                    |                                 |  |
|                    | 4                       |                  | -1.68    |                                |             |                    |                                 |  |
|                    | 5                       |                  | -0.48    |                                |             |                    |                                 |  |
|                    | 6                       |                  | 0.97     |                                |             |                    |                                 |  |
|                    | 7                       |                  | 2.25     |                                |             |                    |                                 |  |
|                    | 8                       |                  | 3.21     |                                |             |                    |                                 |  |
|                    | 9                       |                  |          | 3.59                           |             |                    |                                 |  |
| Displacement       | Anchor                  | Tasks by         | Dis      | placement                      | Anchor 7    | Fasks by Tas       | k Difficulty                    |  |
| of Anchor<br>Tasks | Task ID                 | Task<br>Difficul |          | Displacement                   | Task ID     | Task<br>Difficulty | Displacement                    |  |
|                    | 15555_17166             | 2.17             |          | 0.00                           | 15555_17166 | 2.17               | 0.00                            |  |

#### Table 2.7.3.5.2

| Equating | Summary:     | Writ 9-12 | B/C S4 | 403 Online |
|----------|--------------|-----------|--------|------------|
| 2quan B  | ~ annual j . |           | 2,00   |            |

| Comparison of          |                            | Form 403           |                              |                                 | Form 402            |                            |
|------------------------|----------------------------|--------------------|------------------------------|---------------------------------|---------------------|----------------------------|
| Forms*                 | No. of Tasks               |                    | age Difficulty<br>Std. Dev.) | No. of Task                     | Ave<br>No. of Tasks |                            |
|                        | 3                          | Ì                  | 1.85 (0.45)                  | 3                               |                     | (Std. Dev.)<br>2.03 (0.34) |
|                        | Easiest                    | ]                  | Hardest                      | Easiest                         |                     | Hardest                    |
|                        | 1.42                       |                    | 2.32                         | 1.83                            |                     | 2.43                       |
| Anchoring<br>Tasks     | No. of Possible<br>Anchors |                    | age Difficulty<br>Std. Dev.) |                                 |                     |                            |
|                        | 1                          |                    | 1.83 (N/A)                   |                                 |                     |                            |
|                        | No. of Anchors<br>Used     |                    | age Difficulty<br>Std. Dev.) |                                 |                     |                            |
|                        | 1                          |                    | 1.83 (N/A)                   |                                 |                     |                            |
|                        | Percentage<br>Anchors      |                    | Average<br>placement         |                                 |                     |                            |
|                        | 33%                        |                    | 0.00                         |                                 |                     |                            |
| Common<br>Rating Scale | Anc                        | hored Scale        | Steps                        |                                 |                     |                            |
| Step                   | Step                       |                    | Measure                      |                                 |                     |                            |
| Measures               | 1                          |                    | -2.47                        |                                 |                     |                            |
|                        | 2                          |                    | -2.78                        |                                 |                     |                            |
|                        | 3                          |                    | -2.61                        |                                 |                     |                            |
|                        | 4                          |                    | -1.68                        |                                 |                     |                            |
|                        | 5                          |                    | -0.48                        |                                 |                     |                            |
|                        | 6                          |                    | 0.97                         |                                 |                     |                            |
|                        | 7                          |                    | 2.25                         |                                 |                     |                            |
|                        | 8                          |                    | 3.21                         |                                 |                     |                            |
|                        | 9                          |                    | 3.59                         |                                 |                     |                            |
| Displacement           | Anchor 7                   | asks by Dis        | placement                    | Anchor Tasks by Task Difficulty |                     |                            |
| of Anchor<br>Tasks     | Task ID                    | Task<br>Difficulty | Displacement                 | Task ID                         | Task<br>Difficulty  | Displacement               |
|                        | 14281_14652                | 1.83               | 0.00                         | 14281_14652                     | 1.83                | 0.00                       |

# 2.7.4 Speaking

2.7.4.1 Grade 1

#### Table 2.7.4.1

Equating Summary: Spek 1 S403 Online

| Equating Sumn<br>Comparison of |                  | Form 40.            | 3                               |           | Form 402                   |                                 |  |  |
|--------------------------------|------------------|---------------------|---------------------------------|-----------|----------------------------|---------------------------------|--|--|
| Forms                          | No. of Ta        | Av                  | erage Difficulty<br>(Std. Dev.) | No. of Ta | Av                         | erage Difficulty<br>(Std. Dev.) |  |  |
|                                | 9                |                     | -1.55 (2.16)                    | 16) 15    |                            | -1.30 (2.13)                    |  |  |
|                                | Easiest          |                     | Hardest                         | Easiest   | t                          | Hardest                         |  |  |
|                                | -4.62            |                     | 0.27                            | -4.43     |                            | 0.35                            |  |  |
| Anchoring                      | No. of Poss      | sible Av            | erage Difficulty                |           |                            |                                 |  |  |
| Tasks                          | Anchor           | s                   | (Std. Dev.)                     |           |                            |                                 |  |  |
|                                | 9                |                     | -1.55 (2.16)                    |           |                            |                                 |  |  |
|                                | No. of Anc       | hors Av             | erage Difficulty                |           |                            |                                 |  |  |
|                                | Used             |                     | (Std. Dev.)                     |           |                            |                                 |  |  |
|                                | 9                |                     | -1.55 (2.16)                    |           |                            |                                 |  |  |
|                                | Percenta         | _                   | Average                         |           |                            |                                 |  |  |
|                                | Anchor           | s ]                 | Displacement                    |           |                            |                                 |  |  |
|                                | 100%             |                     | -0.02                           |           |                            |                                 |  |  |
| Rating Scale<br>Step           | Aı               | nchored Scal        | e Steps                         |           |                            |                                 |  |  |
| Measures by                    | Task             | Step                | Measure                         |           |                            |                                 |  |  |
| Task                           | I USK            | 1                   | 0.56                            |           |                            |                                 |  |  |
|                                | PL 1 Tasks       |                     |                                 |           |                            |                                 |  |  |
|                                |                  | 2                   | -0.56<br>-2.65                  |           |                            |                                 |  |  |
|                                | PL 3/PL 5        | 2                   | -2.03                           |           |                            |                                 |  |  |
|                                | Tasks            | 3                   | 1.46                            |           |                            |                                 |  |  |
|                                | Tublib           | 4                   | 2.98                            |           |                            |                                 |  |  |
| Displacement                   |                  |                     |                                 |           |                            |                                 |  |  |
| of Anchor                      | Anchor           | r Tasks by D        | isplacement                     | Anchor    | Tasks by Ta                | sk Difficulty                   |  |  |
| Tasks                          | Teals ID         | Task                | Dianla com on t                 | Task ID   | Task                       | Dianla com on t                 |  |  |
|                                | Task ID<br>15011 | Difficulty<br>-0.07 | Displacement-0.33               | 15004     | <b>Difficulty</b><br>-4.62 | Displacement                    |  |  |
|                                | 16137            | -4.20               | -0.33                           | 16140     | -4.62                      | -0.03                           |  |  |
|                                | 16268            | -4.20               | -0.28                           | 16137     | -4.42                      | -0.03                           |  |  |
|                                | 16140            | -0.20               | -0.18                           | 16149     | -4.20                      | 0.29                            |  |  |
|                                | 15004            | -4.42               | 0.00                            | 16262     | -0.32                      | 0.02                            |  |  |
|                                | 16262            | -4.02               | 0.00                            | 16268     | -0.20                      | -0.18                           |  |  |
|                                | 15019            | 0.13                | 0.02                            | 15011     | -0.20                      | -0.18                           |  |  |
|                                | 16158            | 0.13                | 0.03                            | 15011     | 0.13                       | 0.03                            |  |  |
|                                | 16149            | -0.52               | 0.29                            | 16158     | 0.13                       | 0.05                            |  |  |

### 2.7.4.2 Grades 2–3

Equating Summary: Spek 2-3 S403 Online

| Comparison of | hary: Spek 2-3 | Form 40      | 3                               |           | Form 402    | 2                               |
|---------------|----------------|--------------|---------------------------------|-----------|-------------|---------------------------------|
| Forms         | No. of Ta      | Av           | erage Difficulty<br>(Std. Dev.) | No. of Ta | Av          | erage Difficulty<br>(Std. Dev.) |
|               | 9              |              | -1.66 (2.33)                    | 15        |             | -1.90 (2.42)                    |
|               | Easiest        |              | Hardest                         | Easiest   | t           | Hardest                         |
|               | -4.75          |              | 0.66                            | -5.24     |             | 0.66                            |
| Anchoring     | No. of Poss    | sible Av     | erage Difficulty                |           |             |                                 |
| Tasks         | Anchor         | s            | (Std. Dev.)                     |           |             |                                 |
|               | 9              |              | -1.66 (2.33)                    |           |             |                                 |
|               | No. of Anc     | hors Av      | erage Difficulty                |           |             |                                 |
|               | Used           |              | (Std. Dev.)                     |           |             |                                 |
|               | 9<br>Percenta  | <b>a</b> 0   | -1.66 (2.33)                    |           |             |                                 |
|               | Anchor         | -            | Average<br>Displacement         |           |             |                                 |
|               | 100%           | 5            | 0.02                            |           |             |                                 |
| Rating Scale  |                |              |                                 |           |             |                                 |
| Step          | Aı             | nchored Scal | e Steps                         |           |             |                                 |
| Measures by   | Task           | Step         | Measure                         |           |             |                                 |
| Task          | PL 1 Tasks     | 1            | 0.56                            |           |             |                                 |
|               |                | 2            | -0.56                           |           |             |                                 |
|               |                | 1            | -2.65                           |           |             |                                 |
|               | PL 3/PL 5      | 2            | -1.80                           |           |             |                                 |
|               | Tasks          | 3            | 1.46                            |           |             |                                 |
|               |                | 4            | 2.98                            |           |             |                                 |
| Displacement  | Ancho          | r Tasks hv D | isplacement                     | Anchor    | Tasks by Ta | sk Difficulty                   |
| of Anchor     |                | Task         |                                 | 11101101  | Task        |                                 |
| Tasks         | Task ID        | Difficulty   | Displacement                    | Task ID   | Difficulty  | Displacement                    |
|               | 15112          | -0.24        | -0.38                           | 15106     | -4.75       | 0.09                            |
|               | 15102          | 0.66         | -0.20                           | 16207     | -4.71       | 0.10                            |
|               | 15092          | -0.31        | -0.12                           | 15085     | -4.60       | 0.00                            |
|               | 15085          | -4.60        | 0.00                            | 15119     | -1.16       | 0.04                            |
|               | 15119          | -1.16        | 0.04                            | 16211     | -0.49       | 0.35                            |
|               | 15106          | -4.75        | 0.09                            | 15092     | -0.31       | -0.12                           |
|               | 16207          | -4.71        | 0.10                            | 15112     | -0.24       | -0.38                           |
|               | 16215          | 0.63         | 0.34                            | 16215     | 0.63        | 0.34                            |
|               | 16211          | -0.49        | 0.35                            | 15102     | 0.66        | -0.20                           |

### 2.7.4.3 Grades 4–5

Equating Summary: Spek 4-5 S403 Online

| Comparison of | hary: Spek 4-5     | Form 40      | 3                               |                                 | Form 40    | 2                               |  |
|---------------|--------------------|--------------|---------------------------------|---------------------------------|------------|---------------------------------|--|
| Forms         | No. of Ta          | Av           | erage Difficulty<br>(Std. Dev.) | No. of Ta                       | Av         | erage Difficulty<br>(Std. Dev.) |  |
|               | 9                  |              | -0.22 (2.71)                    | 15                              |            | -0.25 (2.68)                    |  |
|               | Easiest            |              | Hardest                         | Easiest                         | t          | Hardest                         |  |
|               | -4.06              |              | 2.22                            | -4.04                           |            | 2.20                            |  |
| Anchoring     | No. of Poss        | sible Av     | erage Difficulty                |                                 |            |                                 |  |
| Tasks         | Anchor             | s            | (Std. Dev.)                     |                                 |            |                                 |  |
|               | 9                  |              | -0.22 (2.71)                    |                                 |            |                                 |  |
|               | No. of Anc         | hors Av      | erage Difficulty                |                                 |            |                                 |  |
|               | Used               |              | (Std. Dev.)                     |                                 |            |                                 |  |
|               | 9                  |              | -0.22 (2.71)                    |                                 |            |                                 |  |
|               | Percenta<br>Anchor | -            | Average                         |                                 |            |                                 |  |
|               | 100%               | 5            | Displacement<br>-0.09           |                                 |            |                                 |  |
| Rating Scale  |                    |              |                                 |                                 |            |                                 |  |
| Step          | Aı                 | ichored Scal | e Steps                         |                                 |            |                                 |  |
| Measures by   | Task               | Step         | Measure                         |                                 |            |                                 |  |
| Task          |                    | 1            | 0.56                            |                                 |            |                                 |  |
|               | PL 1 Tasks         | 2            | -0.56                           |                                 |            |                                 |  |
|               |                    | 1            | -2.65                           |                                 |            |                                 |  |
|               | PL 3/PL 5          | 2            | -1.80                           |                                 |            |                                 |  |
|               | Tasks              | 3            | 1.46                            |                                 |            |                                 |  |
|               |                    | 4            | 2.98                            |                                 |            |                                 |  |
| Displacement  | Ancho              | · Tasks by D | isplacement                     | Anchor Tasks by Task Difficulty |            |                                 |  |
| of Anchor     |                    | Task         |                                 |                                 | Task       |                                 |  |
| Tasks         | Task ID            | Difficulty   | Displacement                    | Task ID                         | Difficulty | Displacement                    |  |
|               | 16301              | -3.47        | -0.47                           | 16174                           | -4.06      | 0.00                            |  |
|               | 15077              | -3.76        | -0.38                           | 15077                           | -3.76      | -0.38                           |  |
|               | 16183              | 2.22         | -0.04                           | 16301                           | -3.47      | -0.47                           |  |
|               | 16321              | 2.15         | -0.04                           | 15174                           | 0.74       | -0.01                           |  |
|               | 16179              | 0.82         | -0.02                           | 16179                           | 0.82       | -0.02                           |  |
|               | 16315              | 1.89         | -0.02                           | 15254                           | 1.52       | 0.19                            |  |
|               | 15174              | 0.74         | -0.01                           | 16315                           | 1.89       | -0.02                           |  |
|               | 16174              | -4.06        | 0.00                            | 16321                           | 2.15       | -0.04                           |  |
|               | 15254              | 1.52         | 0.19                            | 16183                           | 2.22       | -0.04                           |  |

### 2.7.4.4 Grades 6–8

Equating Summary: Spek 6-8 S403 Online

| Equating Summ<br>Comparison of |                    | Form 40.     | 3                               | Form 402  |             |                                 |  |
|--------------------------------|--------------------|--------------|---------------------------------|-----------|-------------|---------------------------------|--|
| Forms*                         | No. of Ta          | Av           | erage Difficulty<br>(Std. Dev.) | No. of Ta | Av          | erage Difficulty<br>(Std. Dev.) |  |
|                                | 9                  |              | 0.24 (2.94)                     | 15        |             | 0.33 (2.91)                     |  |
|                                | Easiest            |              | Hardest                         | Easiest   | t           | Hardest                         |  |
|                                | -3.90              |              | 3.02                            | -3.73     |             | 3.02                            |  |
| Anchoring                      | No. of Poss        | sible Av     | erage Difficulty                |           |             |                                 |  |
| Tasks                          | Anchor             | s            | (Std. Dev.)                     |           |             |                                 |  |
|                                | 9                  |              | 0.24 (2.94)                     |           |             |                                 |  |
|                                | No. of Anc         | hors Av      | erage Difficulty                |           |             |                                 |  |
|                                | Used               |              | (Std. Dev.)                     |           |             |                                 |  |
|                                | 9<br>Demo en 4-    |              | 0.24 (2.94)                     |           |             |                                 |  |
|                                | Percenta<br>Anchor | _            | Average                         |           |             |                                 |  |
|                                | 100%               | <u> </u>     | Displacement<br>0.01            |           |             |                                 |  |
| Rating Scale                   |                    |              |                                 |           |             |                                 |  |
| Step                           | Aı                 | ichored Scal | e Steps                         |           |             |                                 |  |
| Measures by                    | Task               | Step         | Measure                         |           |             |                                 |  |
| Task                           | PL 1 Tasks         | 1            | 0.56                            |           |             |                                 |  |
|                                |                    | 2            | -0.56                           |           |             |                                 |  |
|                                |                    | 1            | -2.65                           |           |             |                                 |  |
|                                | PL 3/PL 5          | 2            | -1.80                           |           |             |                                 |  |
|                                | Tasks              | 3            | 1.46                            |           |             |                                 |  |
|                                |                    | 4            | 2.98                            |           |             |                                 |  |
| Displacement                   | Ancho              | Tasks by D   |                                 | Anchor    | Tasks hv Ta | sk Difficulty                   |  |
| of Anchor                      | meno               | Task         |                                 | menor     | Task        | Sk Difficulty                   |  |
| Tasks                          | Task ID            | Difficulty   | Displacement                    | Task ID   | Difficulty  | Displacement                    |  |
|                                | 15163              | -3.20        | -0.43                           | 16218     | -3.90       | 0.10                            |  |
|                                | 15326              | 1.86         | -0.22                           | 15319     | -3.73       | 0.35                            |  |
|                                | 15340              | 3.02         | -0.18                           | 15163     | -3.20       | -0.43                           |  |
|                                | 15175              | 1.50         | -0.14                           | 15175     | 1.50        | -0.14                           |  |
|                                | 16218              | -3.90        | 0.10                            | 16223     | 1.51        | 0.34                            |  |
|                                | 16228              | 2.72         | 0.10                            | 15326     | 1.86        | -0.22                           |  |
|                                | 15181              | 2.37         | 0.13                            | 15181     | 2.37        | 0.13                            |  |
|                                | 16223              | 1.51         | 0.34                            | 16228     | 2.72        | 0.10                            |  |
|                                | 15319              | -3.73        | 0.35                            | 15340     | 3.02        | -0.18                           |  |

### 2.7.4.5 Grades 9–12

Equating Summary: Spek 9-12 S403 Online

| Comparison of      |                    | Form 4             |                                  |           | Form 402                        |                                  |  |  |
|--------------------|--------------------|--------------------|----------------------------------|-----------|---------------------------------|----------------------------------|--|--|
| Forms*             | No. of Ta          | Α                  | verage Difficulty<br>(Std. Dev.) | No. of Ta | A                               | verage Difficulty<br>(Std. Dev.) |  |  |
|                    | 9                  |                    | 0.64 (2.59)                      | 15        |                                 | 0.71 (2.48)                      |  |  |
|                    | Easiest            |                    | Hardest                          | Easies    | t                               | Hardest                          |  |  |
|                    | -3.13              |                    | 2.84                             | -2.61     |                                 | 2.84                             |  |  |
| Anchoring          | No. of Poss        | sible A            | verage Difficulty                |           |                                 |                                  |  |  |
| Tasks              | Anchor             | s                  | (Std. Dev.)                      |           |                                 |                                  |  |  |
|                    | 9                  |                    | 0.64 (2.59)                      |           |                                 |                                  |  |  |
|                    | No. of Anc         | hors A             | verage Difficulty                |           |                                 |                                  |  |  |
|                    | Used               |                    | (Std. Dev.)                      |           |                                 |                                  |  |  |
|                    | 9                  |                    | 0.64 (2.59)                      |           |                                 |                                  |  |  |
|                    | Percenta<br>Anchor | -                  | Average                          |           |                                 |                                  |  |  |
|                    | 100%               | 5                  | Displacement<br>-0.01            |           |                                 |                                  |  |  |
| Rating Scale       | 100%               |                    | -0.01                            |           | Ī                               |                                  |  |  |
| Step               | Aı                 | nchored Sca        | le Steps                         |           | -                               |                                  |  |  |
| Measures by        | Task               | Step               | Measure                          |           |                                 |                                  |  |  |
| Task               | PL 1 Tasks         | 1                  | 0.56                             |           |                                 |                                  |  |  |
|                    |                    | 2                  | -0.56                            |           |                                 |                                  |  |  |
|                    |                    | 1                  | -2.65                            |           |                                 |                                  |  |  |
|                    | PL 3/PL 5          | 2                  | -1.80                            |           |                                 |                                  |  |  |
|                    | Tasks              | 3                  | 1.46                             |           |                                 |                                  |  |  |
|                    |                    | 4                  | 2.98                             |           |                                 |                                  |  |  |
| Displacement       | Ancho              | r Tasks by ]       | Displacement                     | Anchor    | Anchor Tasks by Task Difficulty |                                  |  |  |
| of Anchor<br>Tasks | Task ID            | Task<br>Difficulty | Displacement                     | Task ID   | Task<br>Difficulty              | Displacement                     |  |  |
|                    | 15479              | -2.61              | -0.32                            | 16231     | -3.13                           | 0.43                             |  |  |
|                    | 16116              | 2.08               | -0.28                            | 16111     | -2.63                           | -0.15                            |  |  |
|                    | 16111              | -2.63              | -0.15                            | 15479     | -2.61                           | -0.32                            |  |  |
|                    | 16122              | 2.55               | -0.13                            | 16236     | 1.88                            | 0.19                             |  |  |
|                    | 16242              | 2.32               | -0.07                            | 16116     | 2.08                            | -0.28                            |  |  |
|                    | 15495              | 2.84               | 0.08                             | 16242     | 2.32                            | -0.07                            |  |  |
|                    | 15487              | 2.42               | 0.15                             | 15487     | 2.42                            | 0.15                             |  |  |
|                    | 16236              | 1.88               | 0.19                             | 16122     | 2.55                            | -0.13                            |  |  |

## 2.8 Test Characteristic Curve

Test characteristic curves graphically show the relationship between the ability measure (in logits) on the horizontal axis and the expected raw score on the vertical axis. Five vertical lines indicate the five cut scores for the highest grade in the cluster for the test form, dividing the figure into six sections for each of the WIDA proficiency levels (PLs 1–6) for the domain being tested. (Note that for Speaking Tier Pre-A or Speaking or Writing Tier A tests, it may not be possible to place into all six language proficiency levels.) As would be expected, higher raw scores are required to be placed into higher language proficiency levels. The relative width of each section between the cut score lines, however, gives an indication of how many raw score points must be earned to be placed into a WIDA language proficiency level.

As the Listening and Reading assessments are multistage adaptive tests, raw scores are not a meaningful aspect of these tests, so no test characteristic curve is presented for these domains.

## 2.8.1 Listening

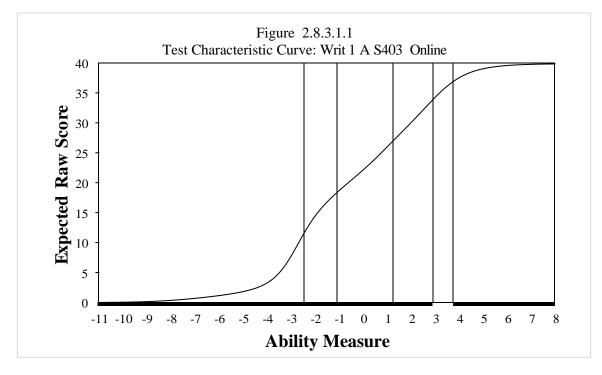
The ACCESS Online Listening test is a multistage adaptive assessment. As students do not all take the same set of items in the test, no test characteristic curve is presented.

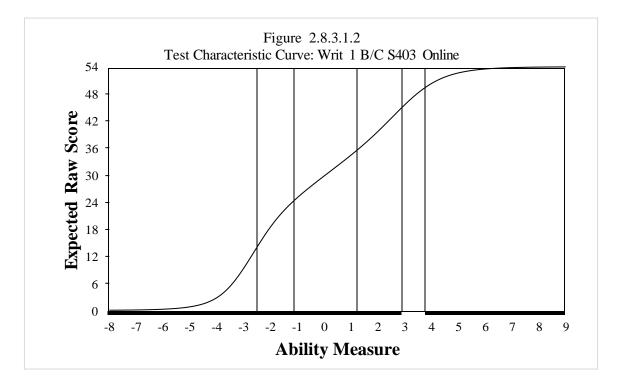
## 2.8.2 Reading

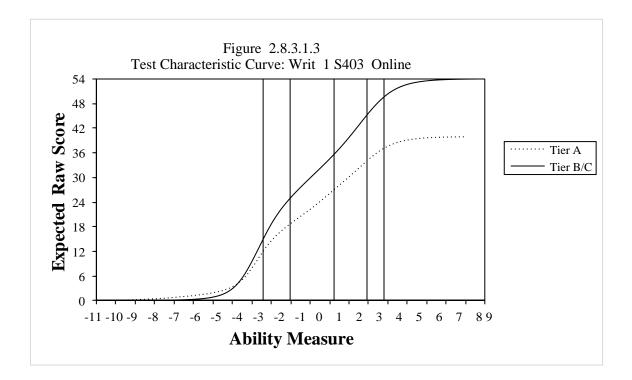
The ACCESS Online Reading test is a multistage adaptive assessment. As students do not all take the same set of items in the test, no test characteristic curve is presented.

## 2.8.3 Writing

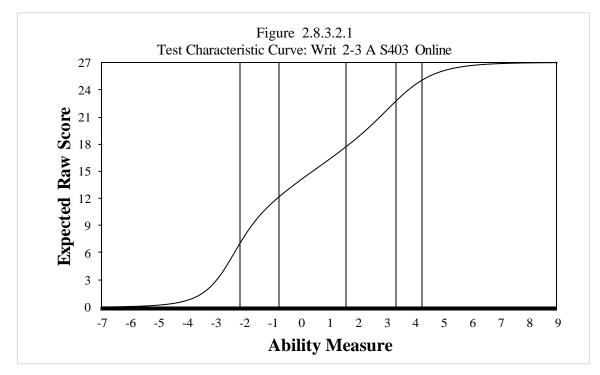
2.8.3.1 Grade 1

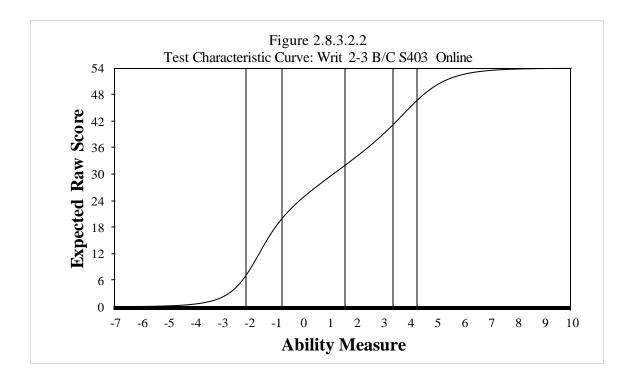


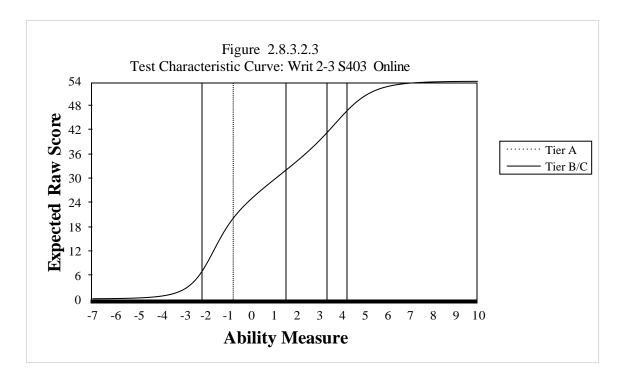




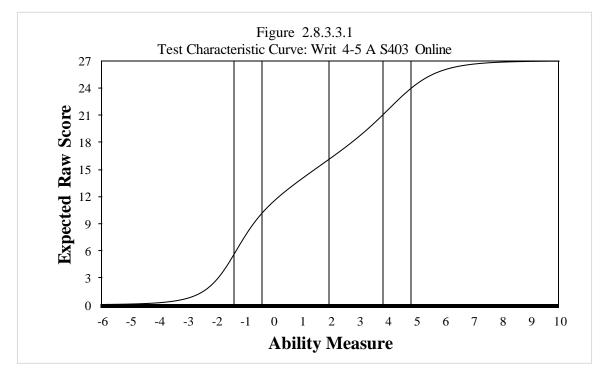
2.8.3.2 Grades 2–3

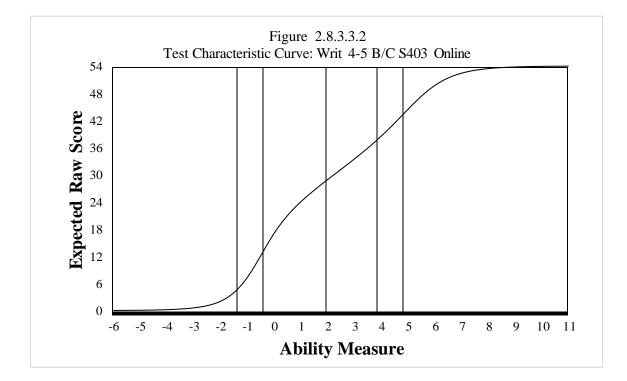


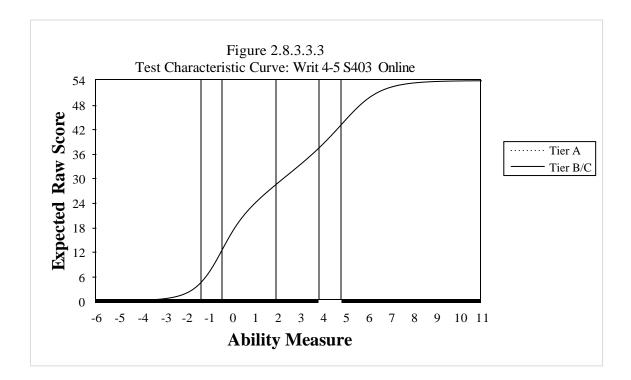




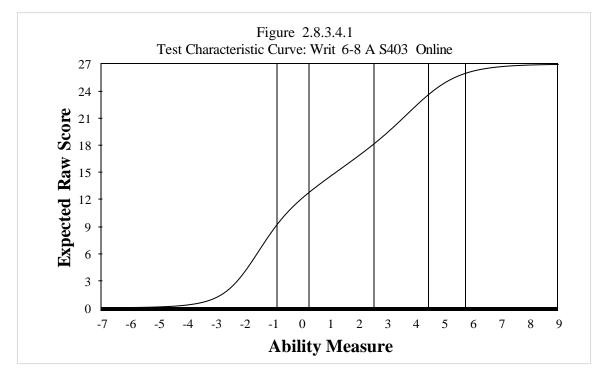
#### 2.8.3.3 Grades 4–5

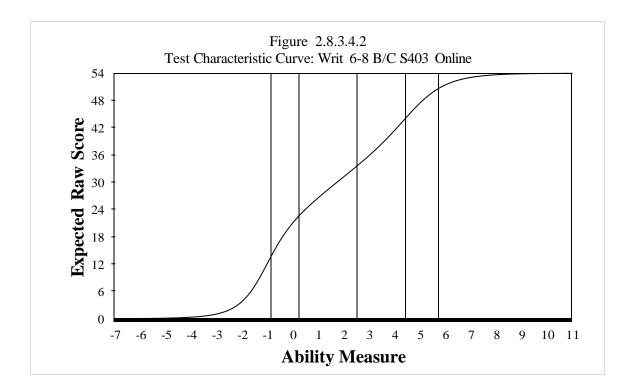


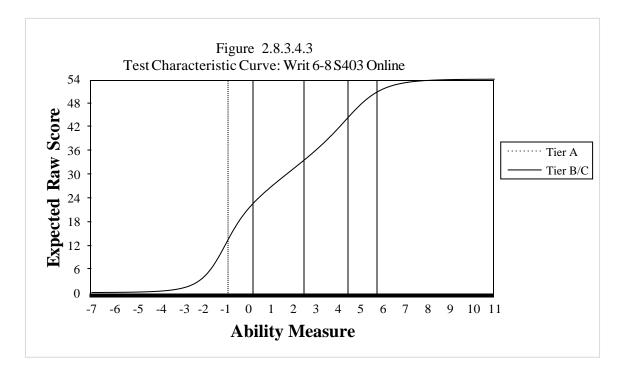




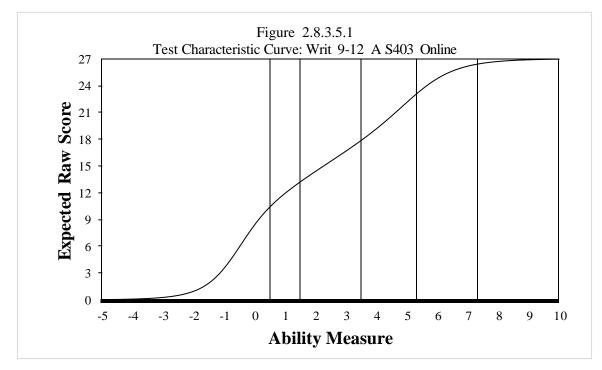
#### 2.8.3.4 Grades 6–8

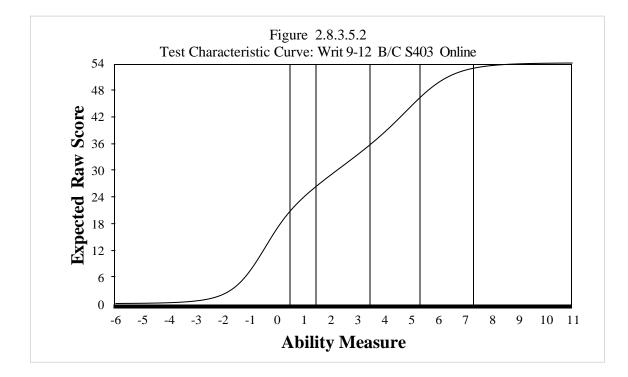


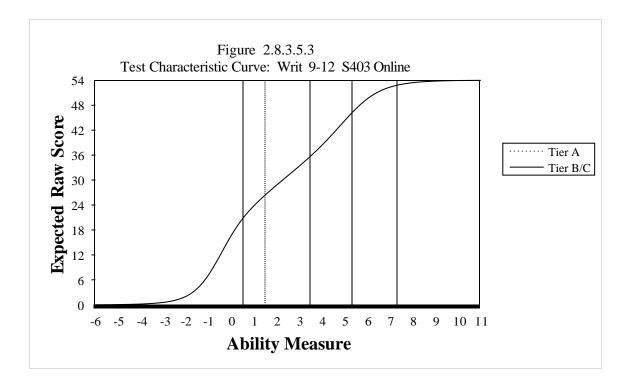




#### 2.8.3.5 Grades 9–12

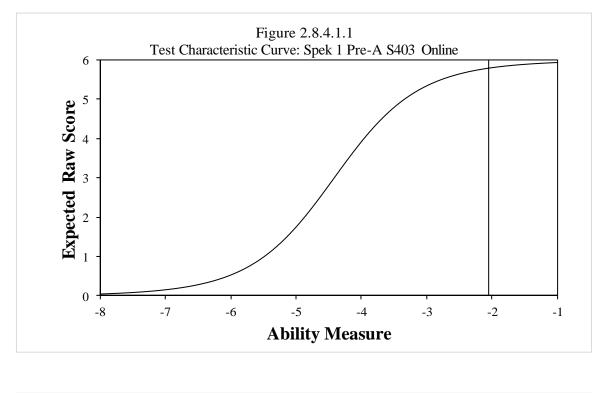


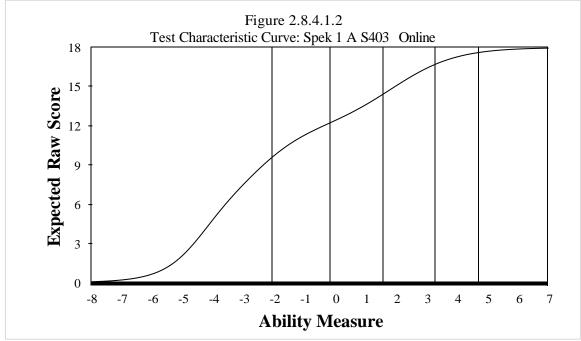


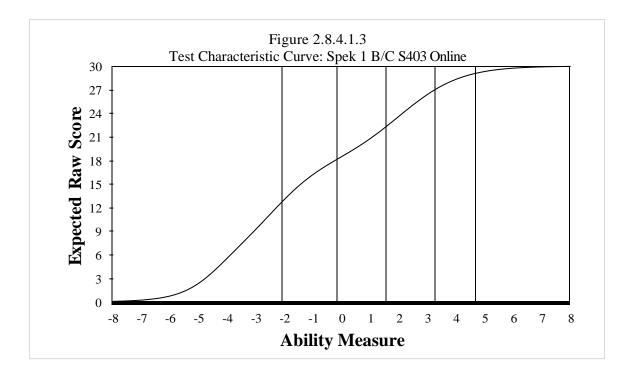


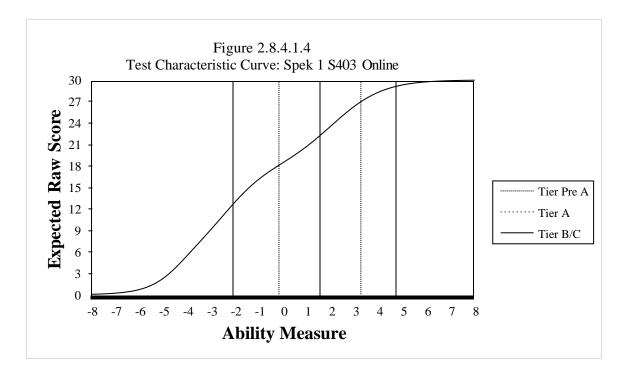
# 2.8.4 Speaking

2.8.4.1 Grade 1

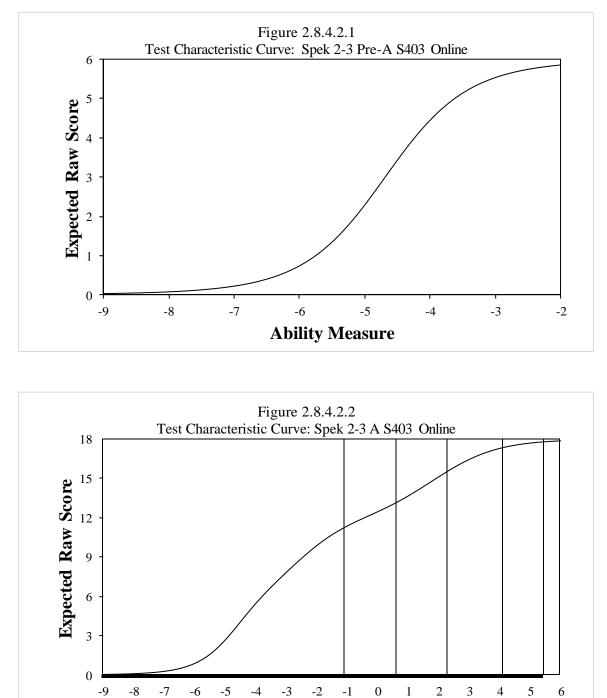








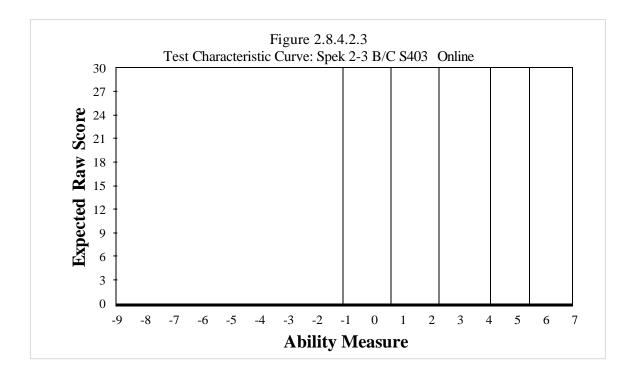
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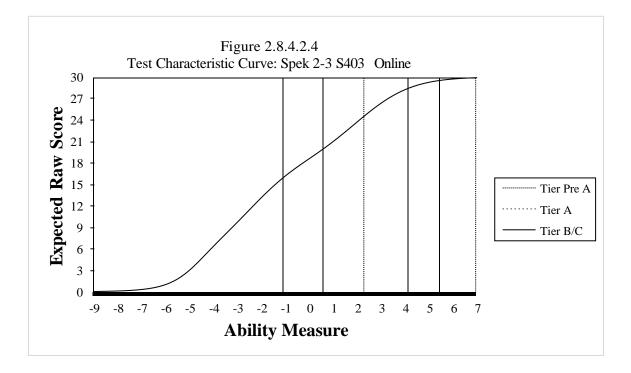


**Ability Measure** 

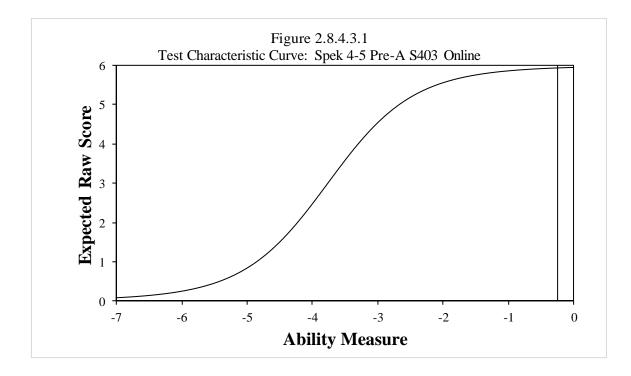
2-255

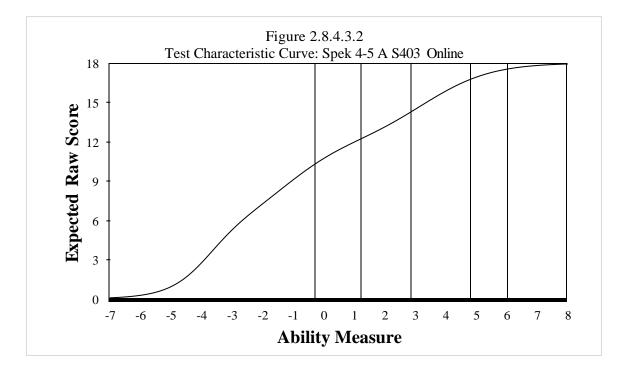
WIDA ACCESS Annual Tech Rpt 15A Part 2

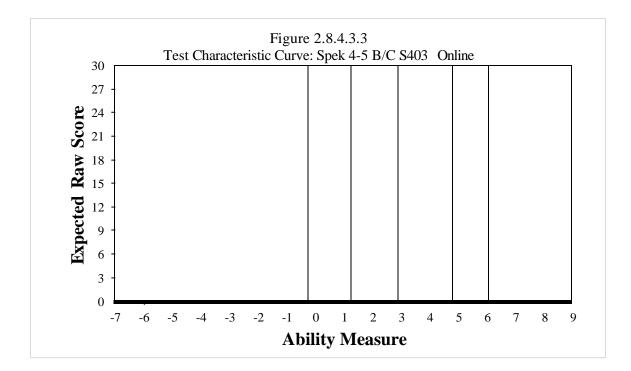


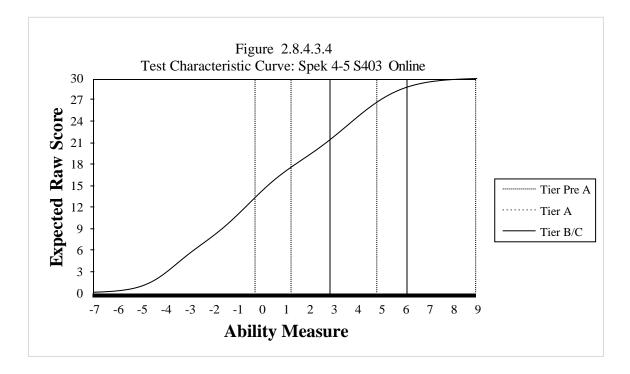


#### 2.8.4.3 Grades 4–5

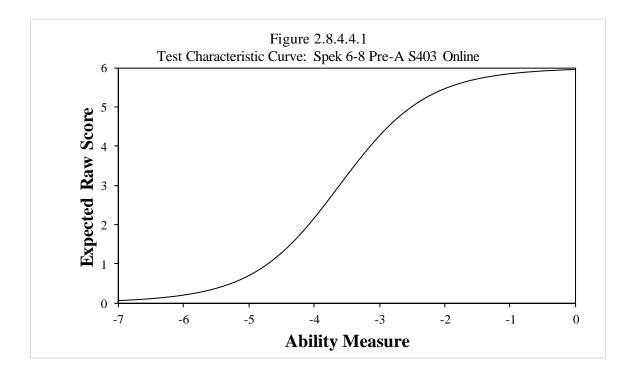


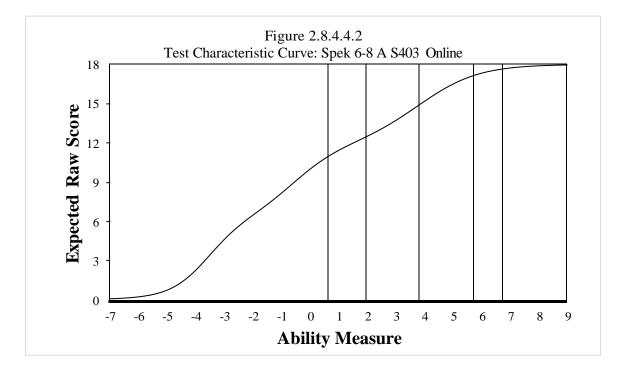


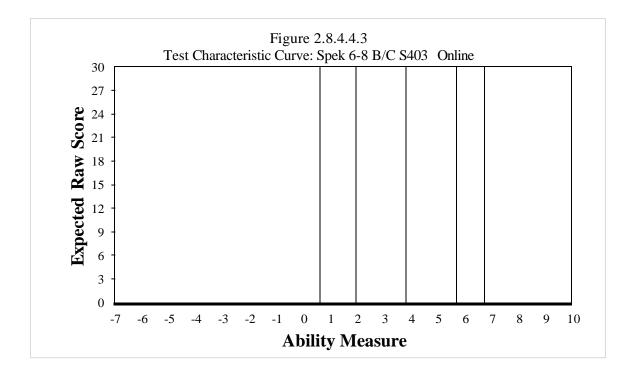


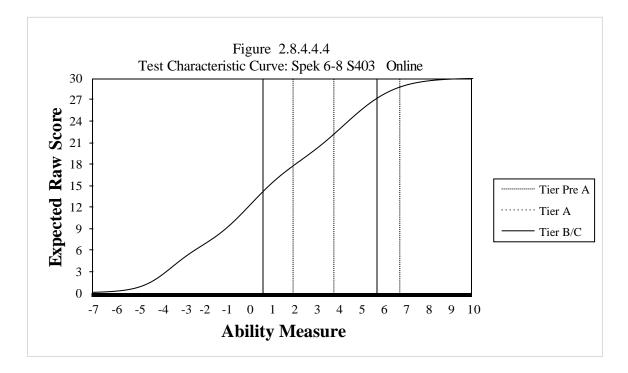


#### 2.8.4.4 Grades 6–8

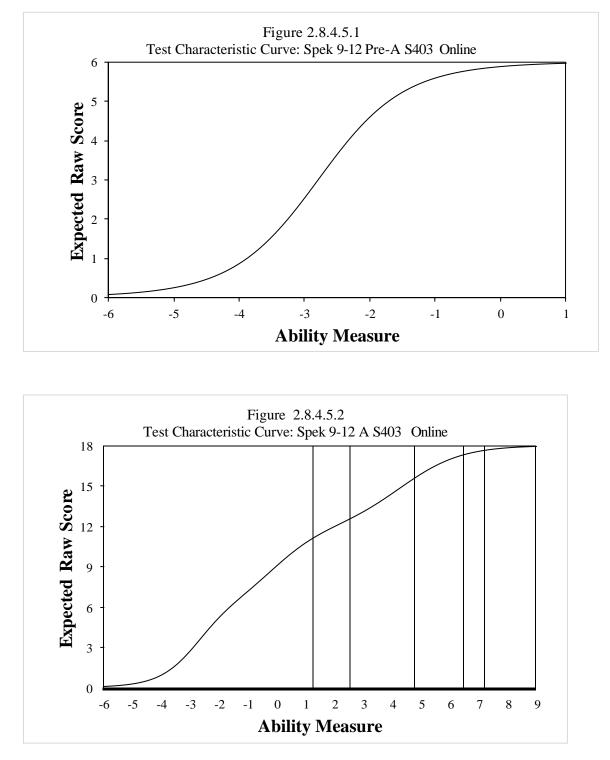


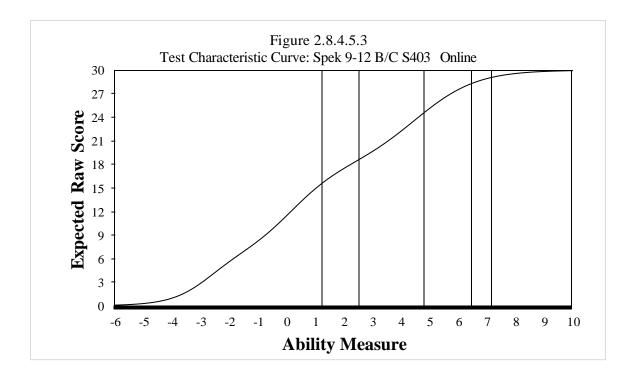


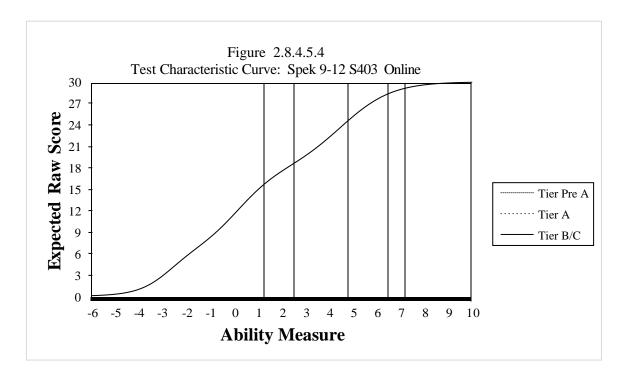




#### 2.8.4.5 Grades 9–12







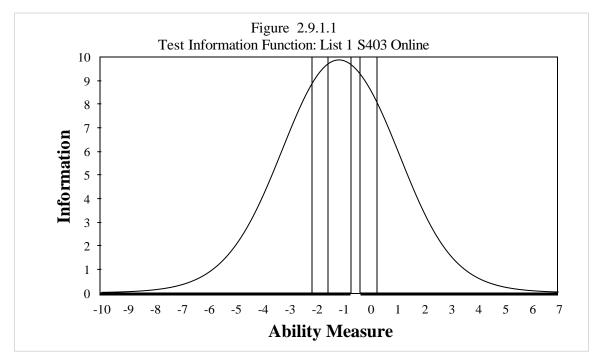
## 2.9 Test Information Function

With the Rasch measurement model, as with any measurement model following item response theory, the relationship between the ability measure (in logits) and the accuracy of test scores can be modeled. It is recognized that tests measure most accurately when the abilities of the examinees and the difficulty of the items are most appropriate for each other. If a test is too difficult for an examinee (i.e., the examinee scores close to zero), or if a test is too easy for an examinee (i.e., the examinee receives a perfect or near-perfect score), the examinee's ability cannot be accurately measured. The figures in this section show graphically how well the test is measuring across the ability measure spectrum. High test information values indicate more accuracy in measurement. Figures show the relationship between the ability measure (in logits) on the horizontal axis and measurement accuracy, represented as the Fisher information value (which is the inverse squared of the standard error), on the vertical axis. The test information function, then, reflects the conditional standard errors of measurement.

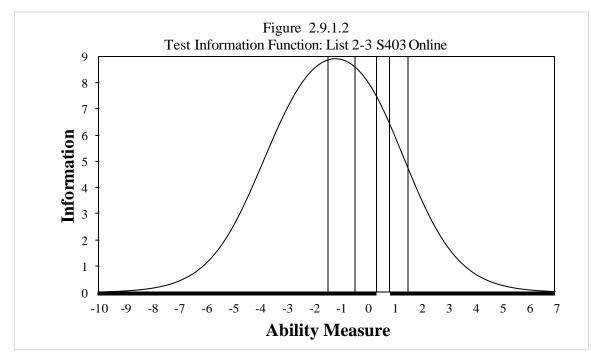
Five vertical lines in the figure indicate the five ACCESS cut scores for the highest grade in the grade-level cluster for the test form, dividing the figure into six sections for each of the WIDA proficiency levels (1–6) for the domain being tested. The ACCESS cut scores lines are presented along with the test information function to facilitate the interpretation of the test information curves. The test information curve and the corresponding ACCESS cut score lines are both expressed on the ACCESS logit scale. Note that for Speaking, in Tier Pre-A, all scores fall in the PL 1.0 range, so for some graphs there are no vertical lines expressing the cuts between proficiency levels.

## 2.9.1 Listening

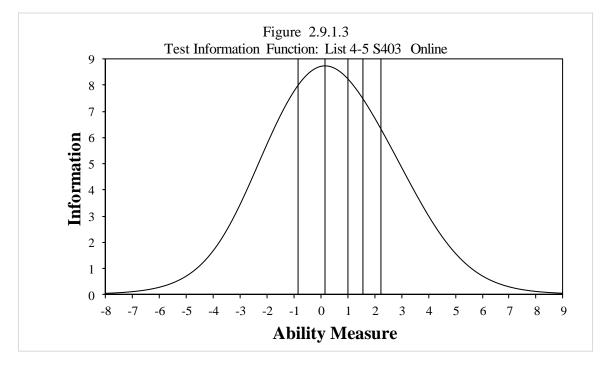




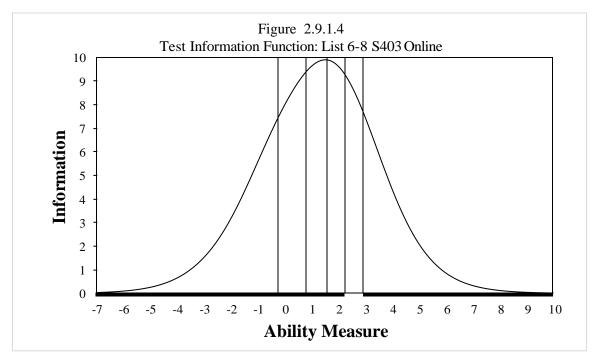




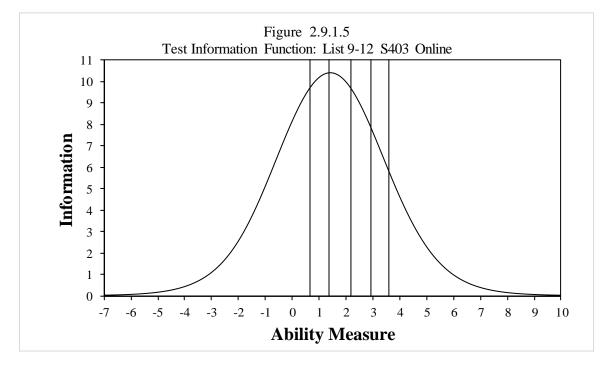
#### 2.9.1.3 Grades 4–5





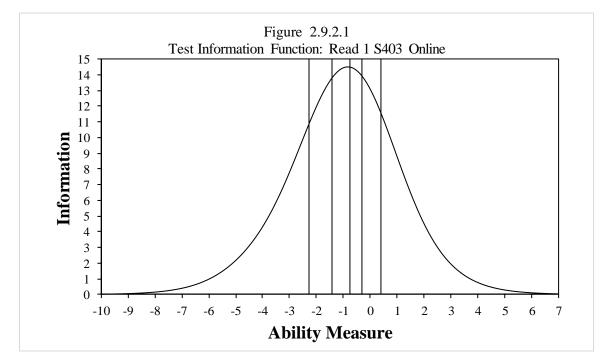


#### 2.9.1.5 Grades 9–12

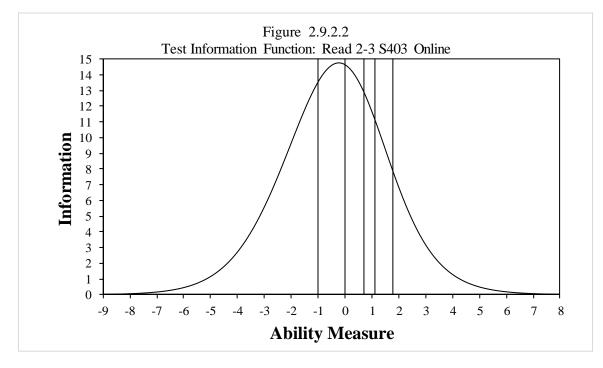


## 2.9.2 Reading

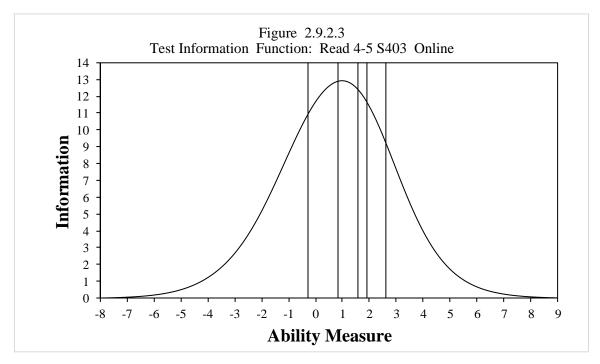
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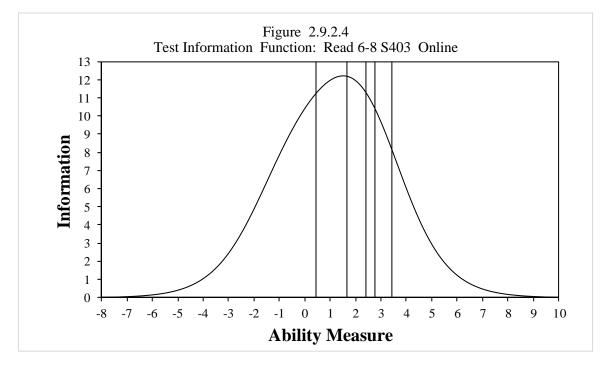
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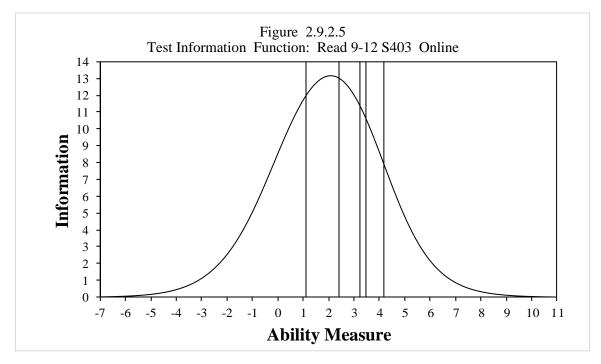




#### 2.9.2.4 Grades 6-8

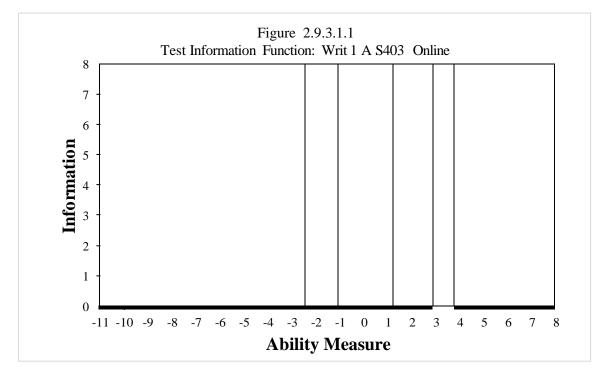


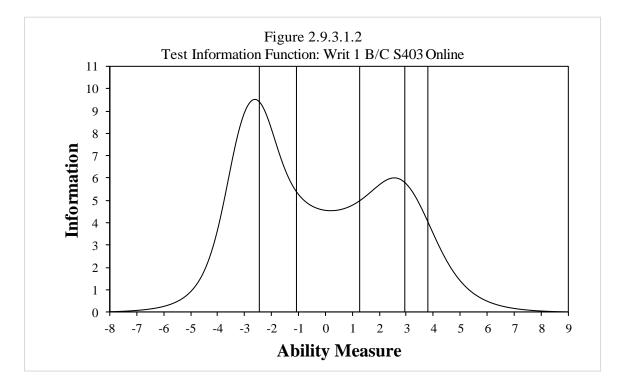


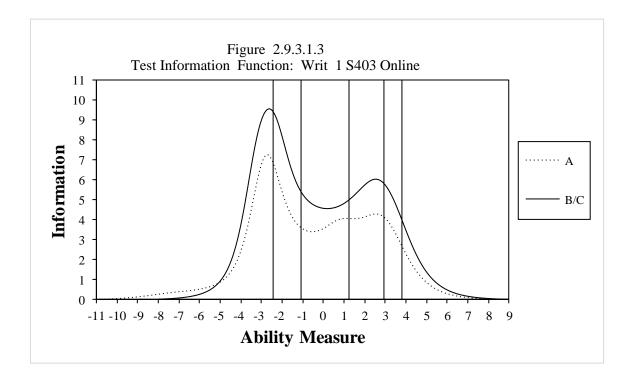


## 2.9.3 Writing

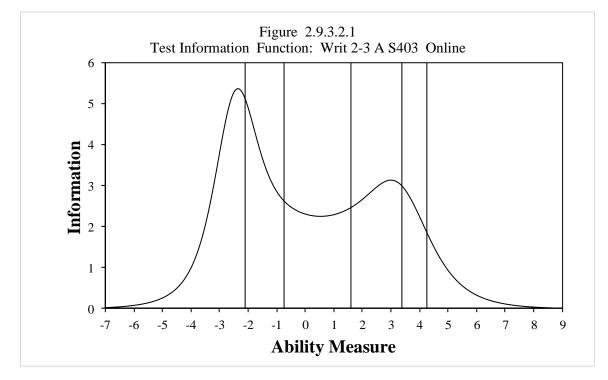
2.9.3.1 Grade 1

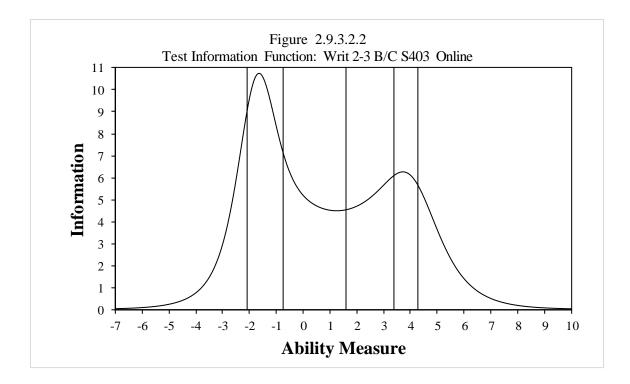


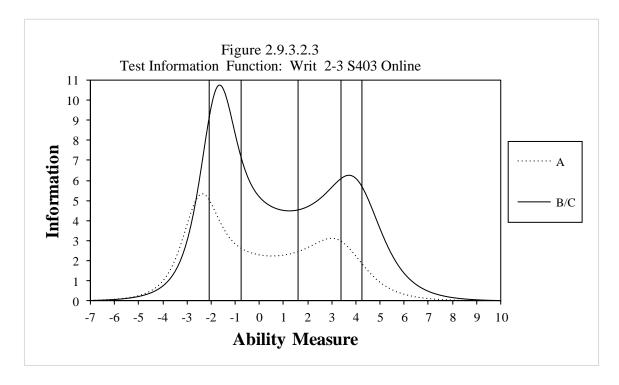




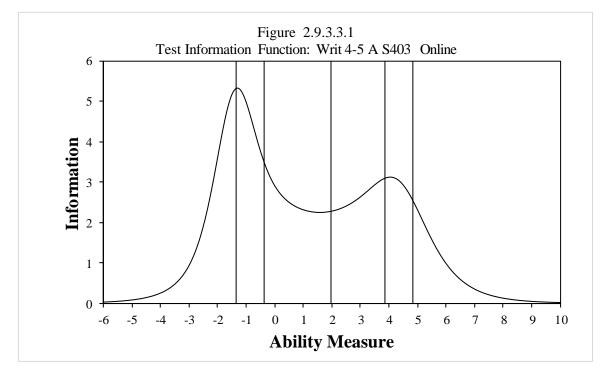
2.9.3.2 Grades 2–3

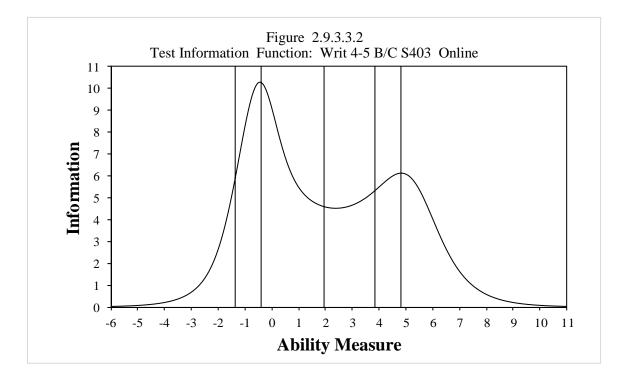


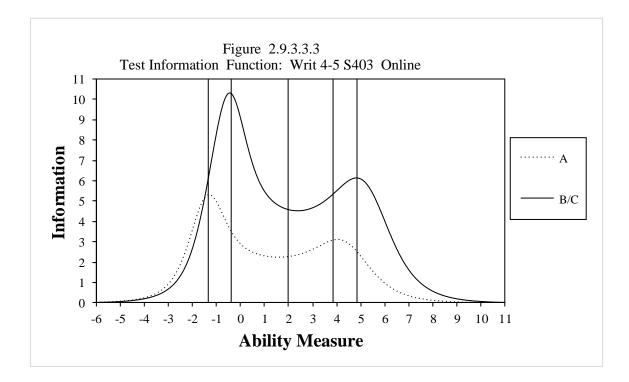




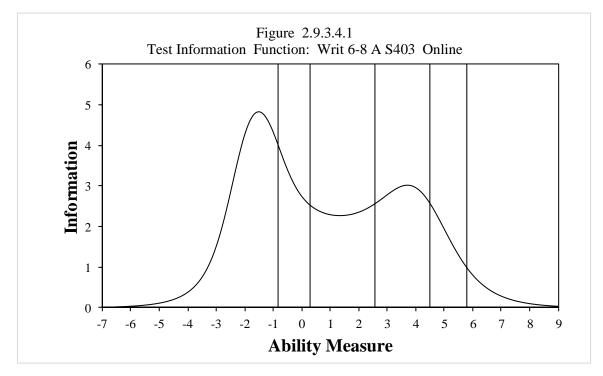
### 2.9.3.3 Grades 4–5

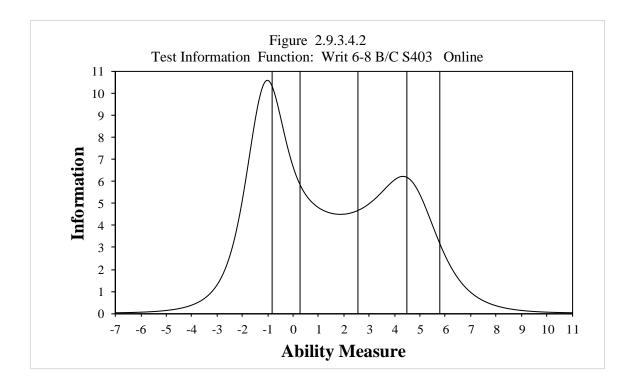


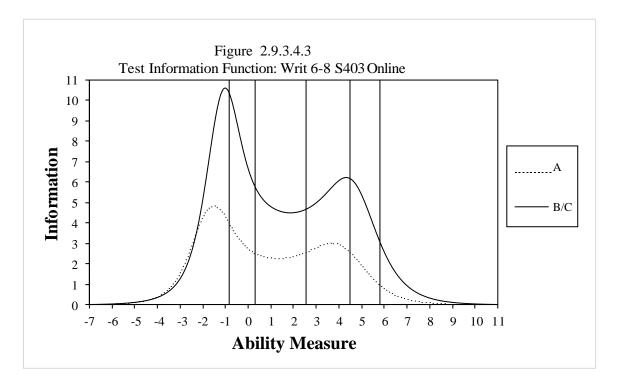




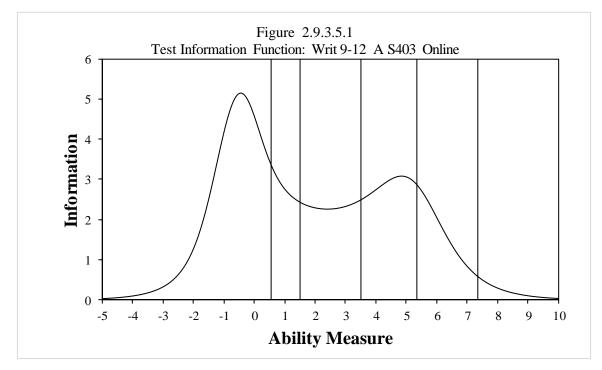
# 2.9.3.4 Grades 6–8

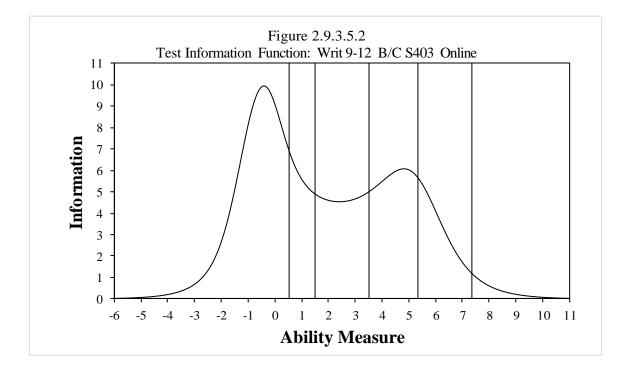


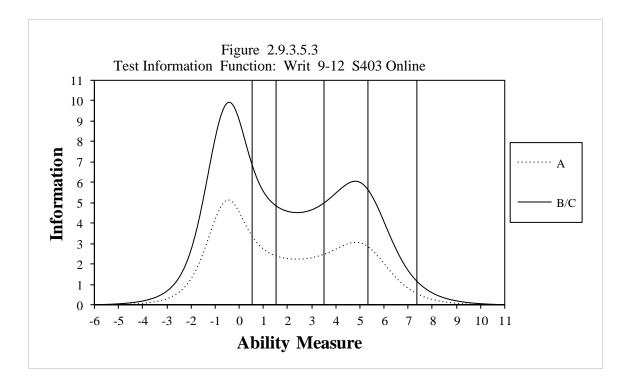




# 2.9.3.5 Grades 9–12

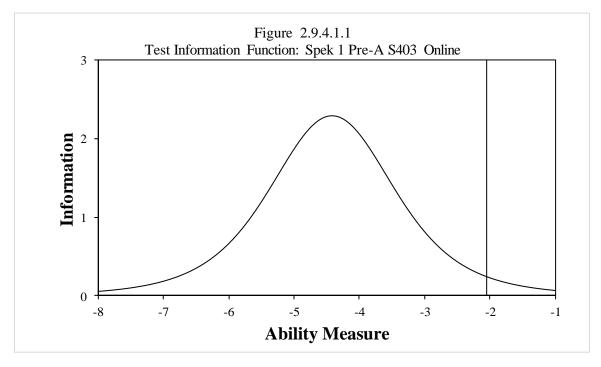


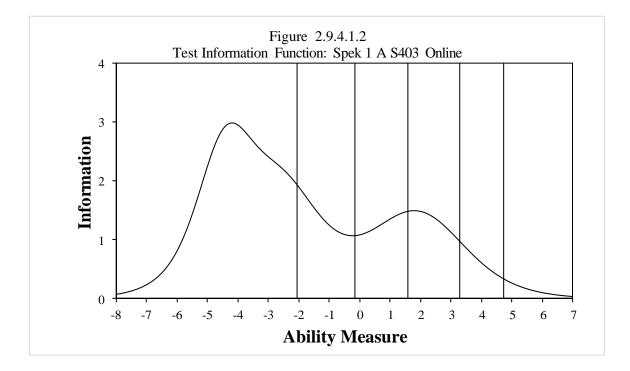


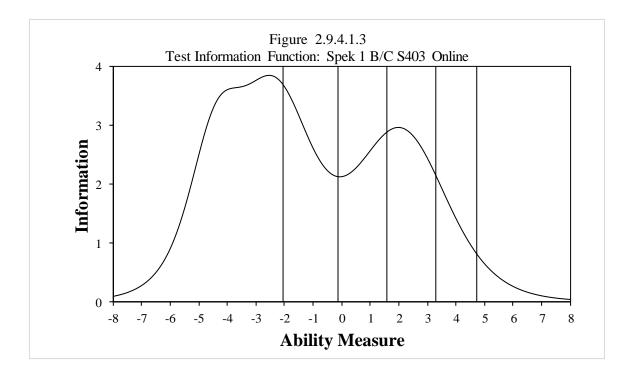


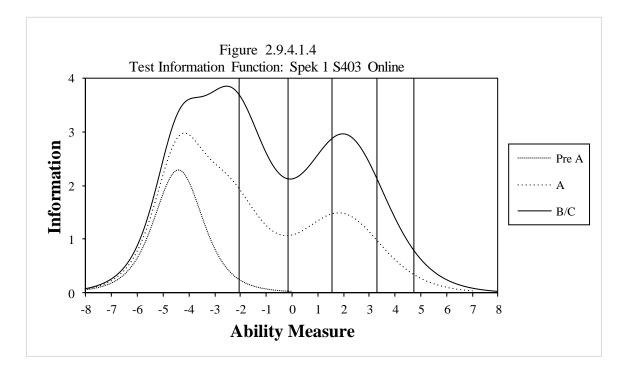
# 2.9.4 Speaking

2.9.4.1 Grade 1

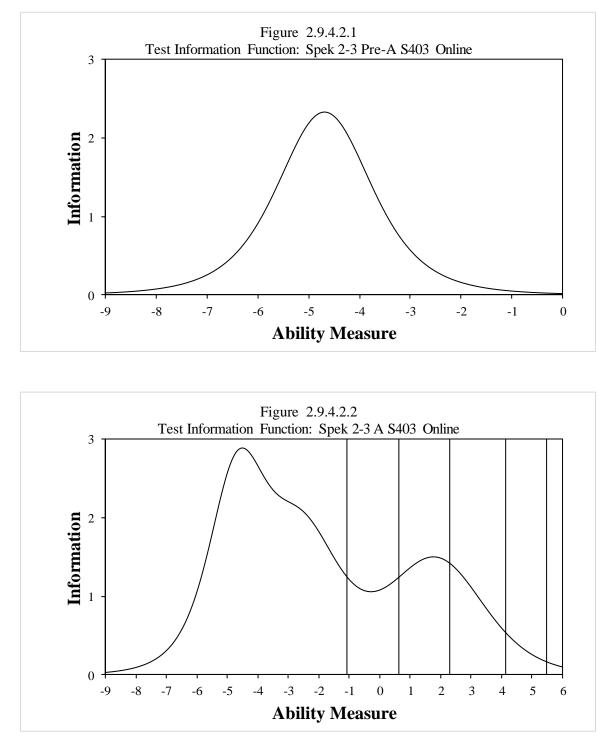


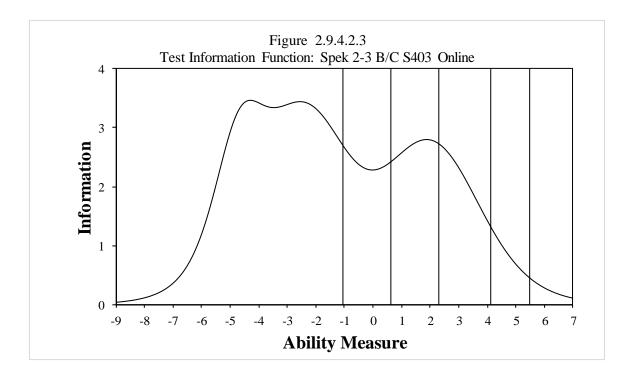


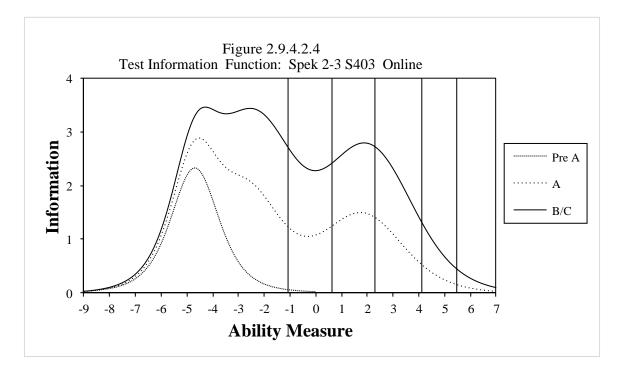




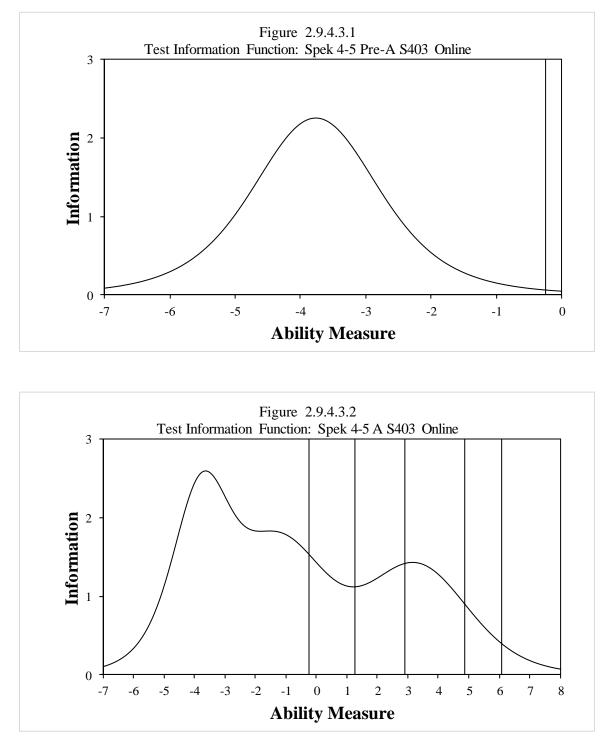
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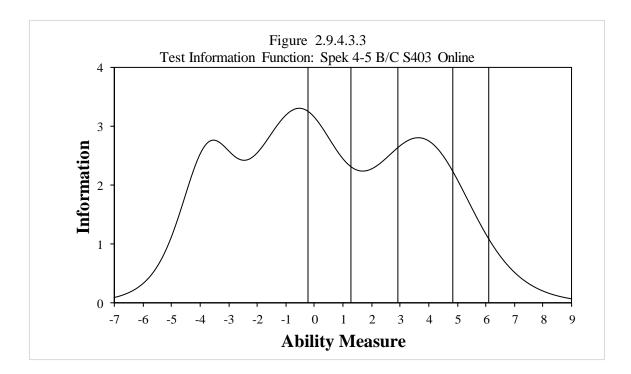


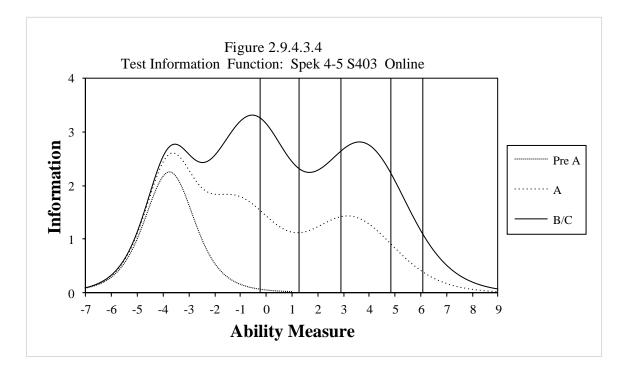




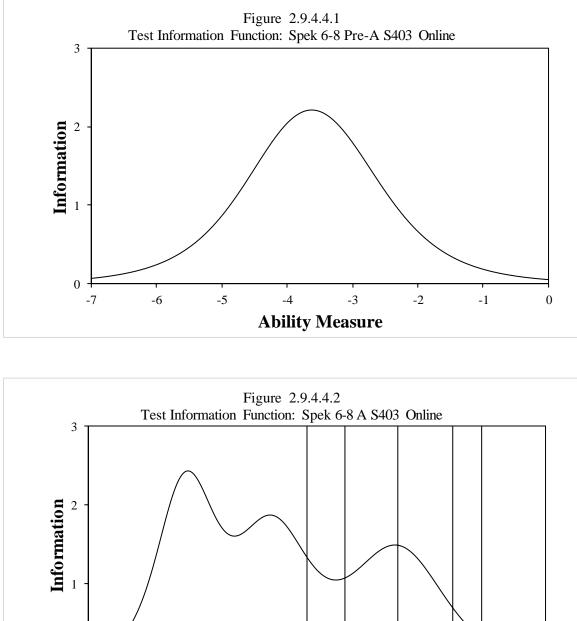
### 2.9.4.3 Grades 4–5

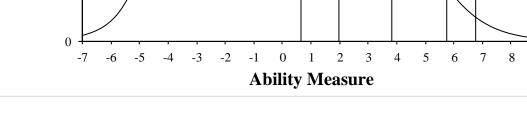




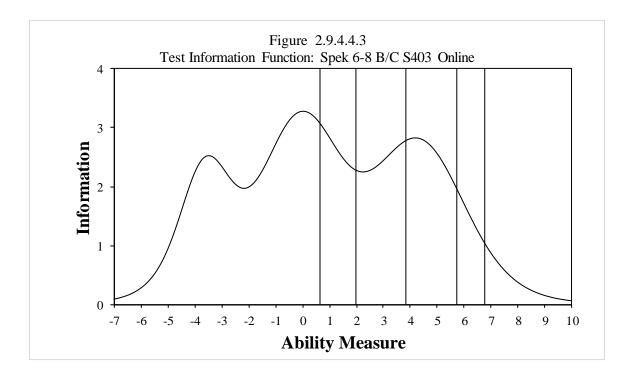


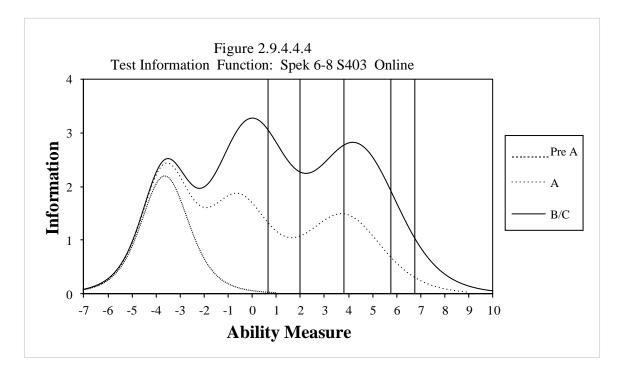
# 2.9.4.4 Grades 6–8



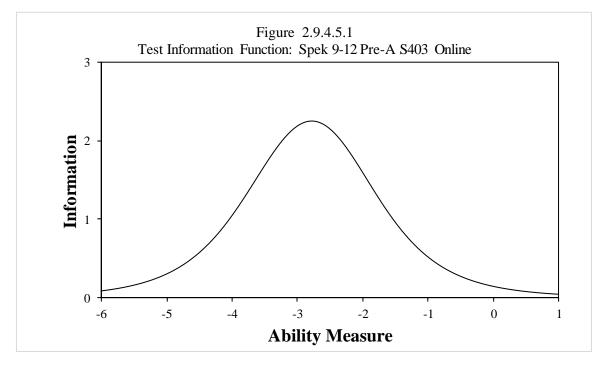


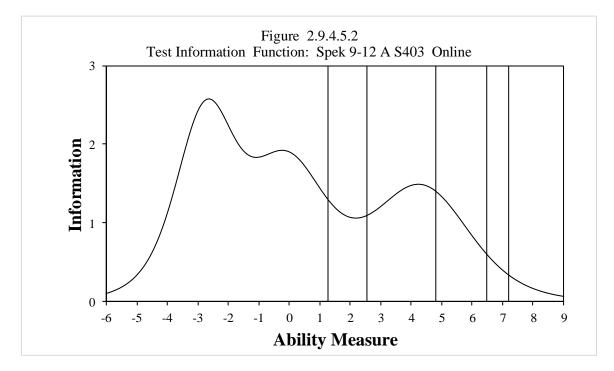
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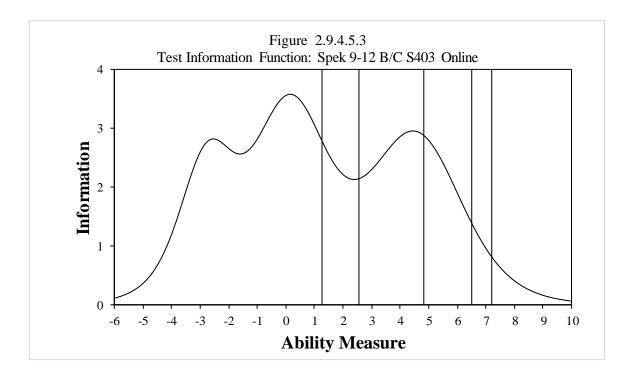


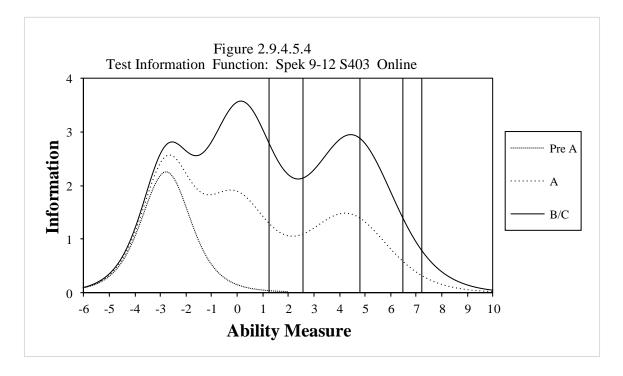


# 2.9.4.5 Grades 9–12









# 2.10 Reliability

# Listening and Reading

For tests administered using a multistage adaptive method, a reliability coefficient based on classical test theory such as Cronbach's coefficient alpha cannot be applied because not all students take the same set of items. Reliability for Listening and Reading was estimated using a method by Thissen (2000) by grade-level cluster:

$$\bar{\rho} = \frac{\sigma^2}{\frac{\theta - average(CSEM_{observed})}{\sigma_{\theta}^2}}$$

where

 $\overline{\rho}$  is the average reliability  $\sigma_{\theta}^2$  is the variance of the distribution of student measure  $CSEM_{observed}^2$  is the squared observed conditional standard error of measurement for each student

This estimate is equivalent to the Rasch separation reliability coefficient (Linacre, 1999). Like Cronbach's alpha, the Rasch reliability coefficient is an estimate of the ratio of "true measure variance" to "observed measure variance." To obtain these values, item parameters and population student data were used as inputs in the Winsteps program. The Rasch separation reliability coefficient can be interpreted like Cronbach's coefficient alpha. It expresses how well the items on a test appear to measure the same construct.

Tables are provided below to express the Rasch separation reliability coefficient for ACCESS Online, for Listening and for Reading. For each domain, the first table provides the Rasch separation reliability coefficient for all test takers. Each row in the table represents a grade-level cluster, and values for the number of students, number of items, and reliability estimate are provided for each grade-level cluster. The second table for each domain provides the same information for the population of female students and the population of male students. The third table provides information by ethnicity, for Hispanic and non-Hispanic test takers, and the fourth table provides information for the population of students who have an individualized education plan (IEP).

# **Speaking and Writing**

Cronbach's coefficient alpha is widely used as an estimate of reliability, particularly of the internal consistency of test items, and this statistic is appropriate for the fixed-form Speaking and Writing tests. Cronbach's alpha expresses how well the items on a test appear to measure the same construct. Conceptually, it may be thought of as the correlation obtained between performances on two halves of the test, if every possibility of dividing the test items in two were attempted. Thus, Cronbach's alpha may be low if some items are measuring something other than what the majority of the items are measuring. As with any reliability index, it is affected by

the number of test items (or test score points that may be awarded). That is, all things being equal, the greater the number of items, the higher the reliability.

Cronbach's alpha is also affected by the distribution of ability within the group of students tested. All things being equal, the greater the heterogeneity of abilities within the group of examinees (i.e., the more widely the scores are distributed), the higher the reliability. In this sense, Cronbach's alpha is sample dependent. It is widely recognized that reliability can be as much a function of the sample of students tested as of the test. That is, the exact same test can produce widely disparate reliability indices based on the ability distribution of the group of examinees.

The formula for Cronbach's alpha is

$$\alpha = \frac{n}{n-1} \begin{bmatrix} 1 - \frac{\sum_{i=1}^{n} \sigma_{i}^{2}}{\sigma_{i}^{2}} \end{bmatrix}$$

where

*n* = number of items *i*  $\sigma_i^2$  = variance of score on item *i*  $\sigma_t^2$  = variance of total score

For the Writing test, a slight modification was made in the estimation of the Cronbach's alpha for tiered forms that have differential weighting across tasks. This modification is an attempt to take into account that some tasks are weighted more than others when deriving students' ability measure for these tiered forms. For Writing tasks with a weight greater than one, students' response to the tasks is replicated as a function of their weights. For example, the fourth task in Writing G1A is weighted three; therefore, students' response to this task is repeated three times when computing the Cronbach's alpha. This modification means that the number of pieces of information for Writing tasks that contribute to the estimation of the Cronbach's alpha for G1A is actually six, not four.

For Writing and Speaking, tables in this section also present the standard error of measurement (SEM) based on classical test theory. Unlike item response theory, in this approach, SEM is seen as a constant across the spread of test scores (ability continuum). Thus, it is not conditional on ability being measured. It is, however, a function of two statistics: the reliability of the test and the (observed) standard deviation (SD) of the test scores. It is calculated as

$$SEM = \frac{SD\sqrt{1 - reliability}}{1 - reliability}$$

Traditionally, SEM has been used to create a band around an examinee's observed score, with the assertion in the view of classical test theory that the examinee's true score (i.e., what the examinee's score would be if it could be measured without error) would lie with a certain degree

of probability within this band. Statistically speaking, then, there is an expectation that an examinee's true score has a 68% probability of falling within the band extending from the observed score minus 1 SEM to the observed score plus 1 SEM.

Tables are provided below to express reliability information for Writing and Speaking. For each domain, the first table provides Cronbach's alpha and the SEM for all test takers. Each row in the table represents a test form, and values for the number of students, number of tasks, Cronbach's alpha, and SEM are provided for each test form. The second table for each domain provides the same information for the population of female students and the population of male students. The third table provides information by ethnicity, for Hispanic and non-Hispanic test takers, and the fourth table provides information for the population of students who have an IEP.

# 2.10.1 Listening

Table 2.10.1.1Reliability: List S403 Online

| Cluster | No. of Students | No. of Items | Rasch<br>Reliability<br>Estimate |
|---------|-----------------|--------------|----------------------------------|
| 1       | 181,107         | 54           | 0.85                             |
| 2-3     | 372,664         | 54           | 0.84                             |
| 4-5     | 322,964         | 54           | 0.81                             |
| 6-8     | 277,787         | 54           | 0.85                             |
| 9-12    | 301,765         | 54           | 0.86                             |

Table 2.10.1.2

Reliability: List S403 Online by Gender

|         |              | Fen                | nale                             | Male               |                                  |
|---------|--------------|--------------------|----------------------------------|--------------------|----------------------------------|
| Cluster | No. of Items | No. of<br>Students | Rasch<br>Reliability<br>Estimate | No. of<br>Students | Rasch<br>Reliability<br>Estimate |
| 1       | 54           | 84,584             | 0.84                             | 95,256             | 0.86                             |
| 2-3     | 54           | 173,798            | 0.83                             | 196,719            | 0.84                             |
| 4-5     | 54           | 146,422            | 0.80                             | 174,527            | 0.81                             |
| 6-8     | 54           | 120,267            | 0.85                             | 155,344            | 0.86                             |
| 9-12    | 54           | 130,894            | 0.86                             | 167,760            | 0.86                             |

#### Reliability: List S403 Online by Ethnicity Hispanic Other Rasch Rasch Reliability Reliability No. of No. of Estimate Students Estimate Students Cluster No. of Items 1 54 115,237 0.85 60,698 0.85 2-3 54 246,502 0.84 116,392 0.83 4-5 54 221,969 0.80 89,207 0.80 6-8 54 186,367 0.85 78,708 0.85 54 196,149 9-12 0.86 91,582 0.86

Table 2.10.1.3Reliability: List S403 Online by Ethnic

Table 2.10.1.4

Reliability: List S403 Online by IEP status

| Cluster | No. of Students | No. of Items | Rasch<br>Reliability<br>Estimate |
|---------|-----------------|--------------|----------------------------------|
| 1       | 14,826          | 54           | 0.89                             |
| 2-3     | 35,854          | 54           | 0.87                             |
| 4-5     | 40,540          | 54           | 0.81                             |
| 6-8     | 46,517          | 54           | 0.83                             |
| 9-12    | 39,698          | 54           | 0.83                             |

# 2.10.2 Reading

Table 2.10.2.1

Reliability: Read S403 Online

| Cluster | No. of Students | No. of Items | Rasch<br>Reliability<br>Estimate |
|---------|-----------------|--------------|----------------------------------|
| 1       | 183,421         | 72           | 0.89                             |
| 2-3     | 373,371         | 72           | 0.88                             |
| 4-5     | 318,641         | 69           | 0.89                             |
| 6-8     | 277,957         | 72           | 0.91                             |
| 9-12    | 297,819         | 72           | 0.91                             |

### Table 2.10.2.2

|         |              | Fen                | nale                             | Male               |                                  |  |
|---------|--------------|--------------------|----------------------------------|--------------------|----------------------------------|--|
| Cluster | No. of Items | No. of<br>Students | Rasch<br>Reliability<br>Estimate | No. of<br>Students | Rasch<br>Reliability<br>Estimate |  |
| 1       | 72           | 85,320             | 0.89                             | 96,829             | 0.89                             |  |
| 2-3     | 72           | 173,462            | 0.88                             | 197,749            | 0.88                             |  |
| 4-5     | 69           | 143,800            | 0.88                             | 172,892            | 0.89                             |  |
| 6-8     | 72           | 119,706            | 0.91                             | 156,029            | 0.92                             |  |
| 9-12    | 72           | 128,400            | 0.91                             | 166,373            | 0.91                             |  |

Reliability: Read S403 Online by Gender

### Table 2.10.2.3

Reliability: Read S403 Online by Ethnicity

|         |              | Hispanic           |                                  | Other              |                                  |
|---------|--------------|--------------------|----------------------------------|--------------------|----------------------------------|
| Cluster | No. of Items | No. of<br>Students | Rasch<br>Reliability<br>Estimate | No. of<br>Students | Rasch<br>Reliability<br>Estimate |
| 1       | 72           | 116,808            | 0.87                             | 61,402             | 0.90                             |
| 2-3     | 72           | 247,022            | 0.88                             | 116,661            | 0.88                             |
| 4-5     | 69           | 218,993            | 0.88                             | 88,005             | 0.89                             |
| 6-8     | 72           | 186,901            | 0.91                             | 78,222             | 0.92                             |
| 9-12    | 72           | 194,471            | 0.91                             | 89,384             | 0.91                             |

### Table 2.10.2.4

Reliability: Read S403 Online by IEP status

| Cluster | No. of Students | No. of Items | Rasch<br>Reliability<br>Estimate |
|---------|-----------------|--------------|----------------------------------|
| 1       | 15,193          | 72           | 0.85                             |
| 2-3     | 36,133          | 72           | 0.86                             |
| 4-5     | 40,121          | 69           | 0.87                             |
| 6-8     | 46,919          | 72           | 0.89                             |
| 9-12    | 39,715          | 72           | 0.87                             |

# 2.10.3 Writing

### Table 2.10.3.1

Reliability: Writ S403 Online

| Cluster | Tier | No. of Students | No. of Tasks | Cronbach's<br>Alpha | SEM   |
|---------|------|-----------------|--------------|---------------------|-------|
|         | A    | 154,550         | 4            | 0.865               | 1.804 |
| 1       | B/C  | 35,093          | 3            | 0.884               | 1.676 |
| 2-3     | А    | 93,614          | 3            | 0.882               | 1.386 |
| 2-3     | B/C  | 296,663         | 3            | 0.916               | 1.622 |
| 4-5     | А    | 44,209          | 3            | 0.909               | 1.305 |
| 4-3     | B/C  | 261,800         | 3            | 0.914               | 1.700 |
| 6-8     | А    | 100,087         | 3            | 0.883               | 1.381 |
| 0-8     | B/C  | 168,607         | 3            | 0.901               | 1.651 |
| 9-12    | А    | 108,872         | 3            | 0.889               | 1.557 |
| 9-12    | B/C  | 184,755         | 3            | 0.910               | 1.984 |

### Table 2.10.3.2

Reliability: Writ S403 Online by Gender

|         |      |              | Female   |            |       |          | Male       |       |
|---------|------|--------------|----------|------------|-------|----------|------------|-------|
|         |      |              | No. of   | Cronbach's |       | No. of   | Cronbach's |       |
| Cluster | Tier | No. of Tasks | Students | Alpha      | SEM   | Students | Alpha      | SEM   |
| 1       | А    | 4            | 70,606   | 0.860      | 1.741 | 82,801   | 0.868      | 1.841 |
| 1       | B/C  | 3            | 17,888   | 0.877      | 1.662 | 17,033   | 0.888      | 1.690 |
| 2-3     | А    | 3            | 39,244   | 0.880      | 1.368 | 53,589   | 0.881      | 1.398 |
| 2-3     | B/C  | 3            | 142,622  | 0.908      | 1.614 | 152,573  | 0.919      | 1.629 |
| 4-5     | А    | 3            | 17,818   | 0.906      | 1.324 | 25,798   | 0.910      | 1.293 |
| 4-5     | B/C  | 3            | 120,260  | 0.905      | 1.678 | 140,215  | 0.919      | 1.717 |
| 6-8     | А    | 3            | 39,185   | 0.878      | 1.409 | 59,839   | 0.882      | 1.362 |
| 0-8     | B/C  | 3            | 76,492   | 0.887      | 1.663 | 91,080   | 0.908      | 1.636 |
| 9-12    | А    | 3            | 42,713   | 0.882      | 1.556 | 64,463   | 0.889      | 1.558 |
| 9-12    | B/C  | 3            | 83,610   | 0.902      | 1.942 | 99,810   | 0.914      | 2.015 |

|         |      |              |                    | Hispanic            |       |                    | Other               |       |  |
|---------|------|--------------|--------------------|---------------------|-------|--------------------|---------------------|-------|--|
| Cluster | Tier | No. of Tasks | No. of<br>Students | Cronbach's<br>Alpha | SEM   | No. of<br>Students | Cronbach's<br>Alpha | SEM   |  |
| 1       | А    | 4            | 103,777            | 0.866               | 1.829 | 46,409             | 0.859               | 1.719 |  |
| 1       | B/C  | 3            | 16,694             | 0.887               | 1.684 | 17,382             | 0.878               | 1.667 |  |
| 2-3     | А    | 3            | 66,436             | 0.884               | 1.386 | 24,298             | 0.865               | 1.390 |  |
| 2-3     | B/C  | 3            | 191,471            | 0.916               | 1.621 | 97,936             | 0.914               | 1.627 |  |
| 4-5     | А    | 3            | 29,792             | 0.909               | 1.307 | 11,393             | 0.883               | 1.330 |  |
| 4-5     | B/C  | 3            | 180,860            | 0.914               | 1.694 | 72,874             | 0.914               | 1.717 |  |
| 6-8     | А    | 3            | 68,472             | 0.881               | 1.380 | 25,436             | 0.849               | 1.390 |  |
| 0-8     | B/C  | 3            | 112,276            | 0.902               | 1.610 | 50,132             | 0.897               | 1.732 |  |
| 9-12    | А    | 3            | 73,714             | 0.888               | 1.558 | 27,984             | 0.860               | 1.568 |  |
| 9-12    | B/C  | 3            | 118,322            | 0.910               | 1.986 | 59,819             | 0.911               | 1.970 |  |

**Table 2.10.3.3**Reliability: Writ S403 Online by Ethnicity

#### Table 2.10.3.4

Reliability: Writ S403 Online by IEP status

|         |      |                 |              | Cronbach's |       |
|---------|------|-----------------|--------------|------------|-------|
| Cluster | Tier | No. of Students | No. of Tasks | Alpha      | SEM   |
| 1       | А    | 14,518          | 4            | 0.879      | 1.990 |
| 1       | B/C  | 1,148           | 3            | 0.926      | 1.795 |
| 2-3     | А    | 18,131          | 3            | 0.877      | 1.418 |
| 2-3     | B/C  | 19,727          | 3            | 0.934      | 1.705 |
| 4-5     | А    | 11,498          | 3            | 0.863      | 1.335 |
| 4-5     | B/C  | 26,859          | 3            | 0.929      | 1.794 |
| 6-8     | А    | 23,824          | 3            | 0.831      | 1.372 |
| 0-8     | B/C  | 21,120          | 3            | 0.909      | 1.647 |
| 9-12    | А    | 17,595          | 3            | 0.853      | 1.582 |
| 9-12    | B/C  | 21,674          | 3            | 0.912      | 2.012 |

# 2.10.4 Speaking

### Table 2.10.4.1

Reliability: Spek S403 Online

|         |       |                 |              | Cronbach's |       |
|---------|-------|-----------------|--------------|------------|-------|
| Cluster | Tier  | No. of Students | No. of Tasks | Alpha      | SEM   |
|         | Pre-A | 5,158           | 3            | 0.848      | 0.838 |
| 1       | А     | 61,323          | 6            | 0.850      | 1.342 |
|         | B/C   | 111,043         | 6            | 0.822      | 1.584 |
|         | Pre-A | 16,359          | 3            | 0.868      | 0.699 |
| 2-3     | А     | 79,013          | 6            | 0.813      | 1.242 |
|         | B/C   | 270,495         | 6            | 0.780      | 1.534 |
|         | Pre-A | 6,011           | 3            | 0.828      | 0.883 |
| 4-5     | А     | 28,001          | 6            | 0.832      | 1.227 |
|         | B/C   | 279,646         | 6            | 0.815      | 1.466 |
|         | Pre-A | 11,494          | 3            | 0.835      | 0.756 |
| 6-8     | А     | 57,829          | 6            | 0.822      | 1.286 |
|         | B/C   | 205,516         | 6            | 0.819      | 1.477 |
|         | Pre-A | 23,102          | 3            | 0.864      | 0.602 |
| 9-12    | А     | 123,691         | 6            | 0.841      | 1.219 |
|         | B/C   | 152,516         | 6            | 0.844      | 1.390 |

#### Table 2.10.4.2

Reliability: Spek S403 Online by Gender

|         |       |              |          | Female     |       |          | Male       |       |
|---------|-------|--------------|----------|------------|-------|----------|------------|-------|
|         |       |              | No. of   | Cronbach's |       | No. of   | Cronbach's |       |
| Cluster | Tier  | No. of Tasks | Students | Alpha      | SEM   | Students | Alpha      | SEM   |
|         | Pre-A | 3            | 1,958    | 0.863      | 0.786 | 3,118    | 0.836      | 0.868 |
| 1       | А     | 6            | 26,184   | 0.854      | 1.327 | 34,620   | 0.844      | 1.350 |
|         | B/C   | 6            | 54,800   | 0.823      | 1.579 | 55,610   | 0.818      | 1.586 |
|         | Pre-A | 3            | 6,684    | 0.874      | 0.688 | 9,410    | 0.864      | 0.700 |
| 2-3     | А     | 6            | 33,686   | 0.815      | 1.231 | 44,819   | 0.809      | 1.246 |
|         | B/C   | 6            | 130,200  | 0.778      | 1.539 | 138,957  | 0.776      | 1.527 |
|         | Pre-A | 3            | 2,489    | 0.847      | 0.843 | 3,326    | 0.815      | 0.907 |
| 4-5     | А     | 6            | 11,485   | 0.826      | 1.223 | 16,186   | 0.833      | 1.227 |
|         | B/C   | 6            | 128,031  | 0.812      | 1.464 | 150,187  | 0.816      | 1.467 |
|         | Pre-A | 3            | 4,772    | 0.837      | 0.739 | 6,412    | 0.833      | 0.761 |
| 6-8     | А     | 6            | 22,334   | 0.820      | 1.290 | 34,885   | 0.821      | 1.281 |
|         | B/C   | 6            | 91,268   | 0.823      | 1.493 | 113,004  | 0.817      | 1.460 |
|         | Pre-A | 3            | 8,932    | 0.839      | 0.599 | 13,686   | 0.875      | 0.598 |
| 9-12    | А     | 6            | 50,640   | 0.827      | 1.235 | 71,559   | 0.849      | 1.206 |
|         | B/C   | 6            | 69,582   | 0.844      | 1.402 | 81,807   | 0.844      | 1.376 |

### Table 2.10.4.3

|         |       |              |                    | Hispanic            |       |                    | Other               |       |
|---------|-------|--------------|--------------------|---------------------|-------|--------------------|---------------------|-------|
| Cluster | Tier  | No. of Tasks | No. of<br>Students | Cronbach's<br>Alpha | SEM   | No. of<br>Students | Cronbach's<br>Alpha | SEM   |
|         | Pre-A | 3            | 3,461              | 0.846               | 0.852 | 1,448              | 0.847               | 0.789 |
| 1       | А     | 6            | 41,441             | 0.853               | 1.341 | 18,051             | 0.831               | 1.344 |
|         | B/C   | 6            | 67,860             | 0.822               | 1.574 | 40,169             | 0.818               | 1.597 |
|         | Pre-A | 3            | 11,341             | 0.871               | 0.707 | 4,201              | 0.848               | 0.641 |
| 2-3     | А     | 6            | 56,330             | 0.818               | 1.235 | 20,616             | 0.780               | 1.259 |
|         | B/C   | 6            | 174,272            | 0.784               | 1.522 | 89,533             | 0.769               | 1.556 |
|         | Pre-A | 3            | 3,781              | 0.819               | 0.899 | 1,216              | 0.839               | 0.767 |
| 4-5     | А     | 6            | 18,630             | 0.835               | 1.224 | 7,678              | 0.785               | 1.212 |
|         | B/C   | 6            | 193,139            | 0.815               | 1.453 | 77,670             | 0.810               | 1.496 |
|         | Pre-A | 3            | 7,510              | 0.824               | 0.768 | 2,329              | 0.862               | 0.586 |
| 6-8     | А     | 6            | 39,128             | 0.825               | 1.287 | 15,211             | 0.770               | 1.268 |
|         | B/C   | 6            | 137,924            | 0.821               | 1.461 | 59,981             | 0.808               | 1.509 |
|         | Pre-A | 3            | 15,676             | 0.865               | 0.616 | 5,449              | 0.858               | 0.491 |
| 9-12    | А     | 6            | 83,062             | 0.848               | 1.228 | 34,021             | 0.799               | 1.186 |
|         | B/C   | 6            | 96,026             | 0.852               | 1.388 | 51,027             | 0.818               | 1.392 |

Reliability: Spek S403 Online by Ethnicity

### Table 2.10.4.4

Reliability: Spek S403 Online by IEP status

|         |       |                 |              | Cronbach's |       |
|---------|-------|-----------------|--------------|------------|-------|
| Cluster | Tier  | No. of Students | No. of Tasks | Alpha      | SEM   |
|         | Pre-A | 984             | 3            | 0.813      | 0.835 |
| 1       | А     | 7,845           | 6            | 0.848      | 1.354 |
|         | B/C   | 5,780           | 6            | 0.814      | 1.612 |
|         | Pre-A | 3,728           | 3            | 0.847      | 0.606 |
| 2-3     | А     | 14,707          | 6            | 0.786      | 1.250 |
|         | B/C   | 17,029          | 6            | 0.789      | 1.536 |
|         | Pre-A | 617             | 3            | 0.810      | 0.769 |
| 4-5     | А     | 7,600           | 6            | 0.788      | 1.170 |
|         | B/C   | 31,143          | 6            | 0.822      | 1.457 |
|         | Pre-A | 1,519           | 3            | 0.856      | 0.611 |
| 6-8     | А     | 14,595          | 6            | 0.807      | 1.244 |
|         | B/C   | 30,284          | 6            | 0.819      | 1.460 |
|         | Pre-A | 2,728           | 3            | 0.900      | 0.584 |
| 9-12    | А     | 21,022          | 6            | 0.859      | 1.187 |
|         | B/C   | 16,025          | 6            | 0.854      | 1.371 |

# 2.11 Interrater Agreement

For the Writing and Speaking tests, tables provide information on interrater agreement for a sample of 20% of task raters. These tables show, for each of the tasks, the percentage of agreement between two raters. The first column shows the task and the second column shows the number of responses that were double scored. DRC selects a sample of 20% of all responses scored, chosen at random during the operational scoring process. The next columns shows the rates of agreement.

For Writing, with 0–6 as defined levels and the possibility of awarding a "plus" score between levels (e.g., 3, 3+, or 4 are all valid scores), scores that match or are contiguous (for example, if Rater 1 assigns a 3+ and Rater 2 assigns a score of 3, 3+, or 4) are categorized as agreement (%AG). Scores that are one whole score point apart (for example, if Rater 1 assigns a 3+ and Rater 2 assigns a score of 2+ or 4+) are categorized as adjacent (%AD). Otherwise, the raters are nonadjacent (%NA). Note that for Writing, interrater agreement is computed independently between ratings of keyboarded and handwritten responses.

For Speaking, when the two raters agree on the rating, an exact agreement is counted (%EX). If the two raters differ by one point, an adjacent agreement is counted (%AD). Otherwise, the raters are nonadjacent (%NA).

# 2.11.3 Writing

2.11.3.1 Grade 1

Table 2.11.3.1.1

Interrater Agreement: Writ 1 A S403 Online

| Interrater | Task | No. in Sample | % AG | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 68,258        | 100  | 0    | 0    |
|            | 2    | 77,286        | 100  | 0    | 0    |
|            | 3    | 83,970        | 98   | 2    | 0    |
|            | 4    | 76,732        | 97   | 3    | 0    |

Table 2.11.3.1.2

Interrater Agreement: Writ 1 B/C S403 Online

| Interrater | Task | No. in Sample | % AG | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 14,338        | 97   | 3    | 0    |
|            | 2    | 15,272        | 97   | 3    | 0    |
|            | 3    | 14,668        | 98   | 2    | 0    |

# 2.11.3.2 Grades 2–3

#### Table 2.11.3.2.1

Interrater Agreement: Writ 2-3 A S403 Online

| Interrater | Task | No. in Sample | % AG | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 49,988        | 96   | 4    | 0    |
|            | 2    | 49,716        | 97   | 3    | 0    |
|            | 3    | 51,038        | 98   | 2    | 0    |

### Table 2.11.3.2.2

Interrater Agreement: Writ 2-3 B/C S403 Online

| Interrater | Task | No. in Sample | % AG | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 121,760       | 97   | 3    | 0    |
|            | 2    | 122,436       | 96   | 4    | 0    |
|            | 3    | 122,716       | 94   | 6    | 0    |

# 2.11.3.3 Grades 4-5

Table 2.11.3.3.1

Interrater Agreement: Writ 4-5 A S403 Online

| Interrater<br>Agreement | Task | Mode of<br>Response | No. in<br>Sample | % AG | % AD | % NA |
|-------------------------|------|---------------------|------------------|------|------|------|
|                         | 1    | HW                  | 4,710            | 98   | 2    | 0    |
|                         | 1    | KB                  | 16,466           | 98   | 2    | 0    |
|                         | 2    | HW                  | 4,588            | 98   | 2    | 0    |
|                         | 2    | KB                  | 16,458           | 97   | 3    | 0    |
|                         | 2    | HW                  | 4,906            | 99   | 1    | 0    |
|                         | 3    | KB                  | 16,414           | 97   | 3    | 0    |

### Table 2.11.3.3.2

Interrater Agreement: Writ 4-5 B/C S403 Online

| Interrater<br>Agreement | Task | Mode of<br>Response | No. in<br>Sample | % AG | % AD | % NA |
|-------------------------|------|---------------------|------------------|------|------|------|
|                         | 1    | HW                  | 18,664           | 97   | 3    | 0    |
|                         | 1    | KB                  | 104,616          | 97   | 3    | 0    |
|                         | 2    | HW                  | 18,474           | 98   | 2    | 0    |
|                         | 2    | KB                  | 104,838          | 97   | 3    | 0    |
|                         | 2    | HW                  | 19,190           | 97   | 3    | 0    |
|                         | 3    | KB                  | 105,028          | 98   | 2    | 0    |

# 2.11.3.4 Grades 6-8

### Table 2.11.3.4.1

Interrater Agreement: Writ 6-8 A S403 Online

| Interrater<br>Agreement | Task | Mode of<br>Response | No. in<br>Sample | % AG | % AD | % NA |
|-------------------------|------|---------------------|------------------|------|------|------|
|                         | 1    | HW                  | 280              | 98   | 2    | 0    |
|                         |      | KB                  | 43,686           | 96   | 4    | 0    |
|                         | 2    | HW                  | 278              | 98   | 2    | 0    |
|                         |      | KB                  | 43,530           | 97   | 3    | 0    |
|                         | 2    | HW                  | 316              | 96   | 4    | 0    |
|                         | 3    | KB                  | 43,832           | 96   | 4    | 0    |

### Table 2.11.3.4.2

Interrater Agreement: Writ 6-8 B/C S403 Online

| Interrater<br>Agreement | Task | Mode of<br>Response | No. in<br>Sample | % AG | % AD | % NA |
|-------------------------|------|---------------------|------------------|------|------|------|
|                         | 1    | HW                  | 310              | 99   | 1    | 0    |
|                         | 1    | KB                  | 75,854           | 98   | 2    | 0    |
|                         | 2    | HW                  | 294              | 95   | 5    | 0    |
|                         | 2    | KB                  | 77,040           | 97   | 3    | 0    |
|                         | 2    | HW                  | 324              | 94   | 6    | 0    |
|                         | 3    | KB                  | 76,644           | 97   | 3    | 0    |

### 2.11.3.5 Grades 9–12

Table 2.11.3.5.1

Interrater Agreement: Writ 9-12 A S403 Online

| Interrater<br>Agreement | Task | Mode of<br>Response | No. in<br>Sample | % AG | % AD | % NA |
|-------------------------|------|---------------------|------------------|------|------|------|
|                         | 1    | HW                  | 202              | 100  | 0    | 0    |
|                         | 1    | KB                  | 48,096           | 95   | 5    | 0    |
|                         | 2    | HW                  | 198              | 99   | 1    | 0    |
|                         | 2    | KB                  | 48,218           | 97   | 3    | 0    |
|                         | 2    | HW                  | 190              | 100  | 0    | 0    |
|                         | 3    | KB                  | 48,138           | 94   | 6    | 0    |

### Table 2.11.3.5.2

| Internater Agree        | Internater Agreement. Witt 9-12 D/C 5405 Online |                     |                  |      |      |      |  |  |  |
|-------------------------|---|---------------------|------------------|------|------|------|--|--|--|
| Interrater<br>Agreement | Task  | Mode of<br>Response | No. in<br>Sample | % AG | % AD | % NA |  |  |  |
|                         | 1   | HW                  | 158              | 100  | 0    | 0    |  |  |  |
|                         | 1   | KB                  | 84,810           | 97   | 3    | 0    |  |  |  |
|                         |   | HW                  | 154              | 99   | 1    | 0    |  |  |  |
|                         | 2   | KB                  | 85,376           | 97   | 3    | 0    |  |  |  |
|                         |   | HW                  | 136              | 97   | 3    | 0    |  |  |  |
|                         | 3   | KB                  | 87,820           | 95   | 5    | 0    |  |  |  |

Interrater Agreement: Writ 9-12 B/C S403 Online

# 2.11.4 Speaking

### 2.11.4.1 Grade 1

Table 2.11.4.1.1

Interrater Agreement: Spek 1 Pre-A S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 3,938         | 99   | 1    | 0    |
|            | 2    | 3,894         | 98   | 2    | 0    |
|            | 3    | 3,892         | 98   | 2    | 0    |

Table 2.11.4.1.2

Interrater Agreement: Spek 1 A S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 35,632        | 99   | 1    | 0    |
|            | 2    | 35,634        | 92   | 8    | 0    |
|            | 3    | 34,976        | 99   | 1    | 0    |
|            | 4    | 34,994        | 87   | 13   | 0    |
|            | 5    | 34,908        | 99   | 1    | 0    |
|            | 6    | 34,908        | 90   | 10   | 0    |

### Table 2.11.4.1.3

Interrater Agreement: Spek 1 B/C S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 55,196        | 89   | 11   | 0    |
|            | 2    | 55,196        | 87   | 13   | 0    |
|            | 3    | 57,562        | 85   | 15   | 0    |
|            | 4    | 57,562        | 83   | 17   | 0    |
|            | 5    | 56,560        | 89   | 11   | 0    |
|            | 6    | 56,566        | 83   | 17   | 0    |

### 2.11.4.2 Grades 2–3

#### Table 2.11.4.2.1

Interrater Agreement: Spek 2-3 Pre-A S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 11,974        | 98   | 2    | 0    |
|            | 2    | 11,270        | 99   | 1    | 0    |
|            | 3    | 11,530        | 99   | 1    | 0    |

#### Table 2.11.4.2.2

Interrater Agreement: Spek 2-3 A S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 41,724        | 99   | 1    | 0    |
|            | 2    | 41,724        | 85   | 15   | 0    |
|            | 3    | 41,438        | 100  | 0    | 0    |
|            | 4    | 41,438        | 89   | 11   | 0    |
|            | 5    | 41,752        | 100  | 0    | 0    |
|            | 6    | 41,752        | 87   | 12   | 0    |

#### Table 2.11.4.2.3

Interrater Agreement: Spek 2-3 B/C S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 133,362       | 79   | 20   | 0    |
|            | 2    | 133,362       | 79   | 20   | 1    |
|            | 3    | 129,550       | 85   | 15   | 0    |
|            | 4    | 129,548       | 79   | 20   | 0    |
|            | 5    | 130,100       | 88   | 12   | 0    |
|            | 6    | 130,100       | 83   | 17   | 0    |

### 2.11.4.3 Grades 4–5

Table 2.11.4.3.1

Interrater Agreement: Spek 4-5 Pre-A S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 4,584         | 97   | 3    | 0    |
|            | 2    | 5,136         | 99   | 1    | 0    |
|            | 3    | 4,806         | 97   | 3    | 0    |

### Table 2.11.4.3.2

| Interrater | Agreement: | Spek 4-5 | A \$403 | Online |
|------------|------------|----------|---------|--------|
| menater    | Agreement. | Sper -J  | A 3403  | Omme   |

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 14,922        | 98   | 2    | 0    |
|            | 2    | 14,922        | 83   | 17   | 0    |
|            | 3    | 15,736        | 99   | 1    | 0    |
|            | 4    | 15,736        | 90   | 10   | 0    |
|            | 5    | 15,526        | 98   | 2    | 0    |
|            | 6    | 15,526        | 90   | 10   | 0    |

### Table 2.11.4.3.3

Interrater Agreement: Spek 4-5 B/C S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 136,240       | 79   | 21   | 0    |
|            | 2    | 136,236       | 79   | 21   | 0    |
|            | 3    | 136,386       | 81   | 18   | 0    |
|            | 4    | 136,394       | 78   | 21   | 0    |
|            | 5    | 133,242       | 79   | 21   | 0    |
|            | 6    | 133,244       | 75   | 24   | 0    |

# 2.11.4.4 Grades 6-8

Table 2.11.4.4.1

Interrater Agreement: Spek 6-8 Pre-A S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 7,480         | 97   | 3    | 0    |
|            | 2    | 7,724         | 98   | 2    | 0    |
|            | 3    | 7,800         | 98   | 2    | 0    |

### Table 2.11.4.4.2

Interrater Agreement: Spek 6-8 A S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 30,038        | 99   | 1    | 0    |
|            | 2    | 30,042        | 86   | 14   | 0    |
|            | 3    | 30,282        | 99   | 1    | 0    |
|            | 4    | 30,282        | 87   | 13   | 0    |
|            | 5    | 31,726        | 99   | 1    | 0    |
|            | 6    | 31,726        | 89   | 11   | 0    |

### Table 2.11.4.4.3

| Interrater Agreement: S | pek 6-8 B/C S403 Online |
|-------------------------|-------------------------|
| internater Agreement. S | per 0-0 D/C 3+03 Omme   |

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 104,696       | 84   | 16   | 0    |
|            | 2    | 104,702       | 79   | 20   | 0    |
|            | 3    | 104,522       | 83   | 17   | 0    |
|            | 4    | 104,520       | 80   | 19   | 0    |
|            | 5    | 103,326       | 84   | 16   | 0    |
|            | 6    | 103,328       | 81   | 18   | 0    |

# 2.11.4.5 Grades 9–12

Table 2.11.4.5.1

Interrater Agreement: Spek 9-12 Pre-A S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 14,002        | 99   | 1    | 0    |
|            | 2    | 13,804        | 99   | 1    | 0    |
|            | 3    | 13,774        | 98   | 2    | 0    |

### Table 2.11.4.5.2

Interrater Agreement: Spek 9-12 A S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 67,328        | 99   | 1    | 0    |
|            | 2    | 67,328        | 88   | 12   | 0    |
|            | 3    | 67,372        | 99   | 1    | 0    |
|            | 4    | 67,372        | 82   | 17   | 1    |
|            | 5    | 66,788        | 99   | 1    | 0    |
|            | 6    | 66,788        | 86   | 13   | 0    |

#### Table 2.11.4.5.3

Interrater Agreement: Spek 9-12 B/C S403 Online

| Interrater | Task | No. in Sample | % EX | % AD | % NA |
|------------|------|---------------|------|------|------|
| Agreement  | 1    | 79,680        | 81   | 19   | 0    |
|            | 2    | 79,680        | 83   | 17   | 0    |
|            | 3    | 82,276        | 78   | 22   | 1    |
|            | 4    | 82,260        | 77   | 23   | 1    |
|            | 5    | 82,912        | 84   | 16   | 0    |
|            | 6    | 82,912        | 77   | 22   | 0    |

# 2.12 Conditional Standard Errors of Measurement at Cut Score

The tables in this section present information on the conditional standard errors of measurement (CSEM) at the most important points at which decisions are made about students based on performance on ACCESS—the cut points between language proficiency levels. Because the cut points depend on the grade level, information is provided for each grade level within a grade-level cluster.

Since the Listening and Reading tests are multistage adaptive tests, the CSEM will vary for the same scale score since students are routed to take different items; therefore, it is not possible to present a single value for the CSEM of the scale score which corresponds to each cut score. In the tables for Listening and Reading, the leftmost column shows the proficiency level cut (e.g., 1/2, which is the cut between PL 1 and PL 2). The second column shows the grade level. The third column shows the cut score in the scale score metric (e.g., 305). The next columns present the mean, standard deviation, minimum, and maximum of the CSEM of all students at the cut scores. Note that there are some rare cases where there are no observed scale scores corresponding to the cut score values; therefore, these descriptive statistics cannot be provided.

For Writing and Speaking, the values are presented by tier. From these tables, it is possible to identify how well the different Writing and Speaking tiers are targeted for making decisions about students at the various proficiency level cuts. For example, Tier A is intended for students at the lowest end of the language proficiency continuum. Optimally, Tier A forms should have the lowest CSEM of any tier at the 1/2 proficiency level cut and a relatively low CSEM at the 2/3 proficiency level cut. At the other end of the continuum, Tier B/C forms should optimally have the lowest CSEM at the 5/6 proficiency level cut and a relatively low CSEM at the 4/5 proficiency level cut. These tables provide comparable information on how well the two tier forms are targeted to provide the most accurate measure in order to place their intended examinees into the language proficiency levels that they target. In the tables for Writing and Speaking, the leftmost column shows the proficiency level cut (e.g., 1/2, which is the cut between PL 1 and PL 2). The second column shows the grade level. The third column shows the cut score in the scale score metric (e.g., 305). In the last column(s), the corresponding CSEM is given for each cut score in the scale score metric for Writing and Speaking.

# 2.12.1 Listening

# 2.12.1.1 Grade 1

| Proficiency<br>Level Cut Point | Grade | Cut Score | No. of<br>Students | Min.  | Max.  | Mean  | Std. Dev. |
|--------------------------------|-------|-----------|--------------------|-------|-------|-------|-----------|
| 1/2                            | 1     | 236       | N/A                | N/A   | N/A   | N/A   | N/A       |
| 2/3                            | 1     | 259       | 43                 | 16.84 | 17.86 | 17.15 | 0.47      |
| 3/4                            | 1     | 291       | 55                 | 17.35 | 18.88 | 18.47 | 0.53      |
| 4/5                            | 1     | 303       | 385                | 17.35 | 19.90 | 17.64 | 0.79      |
| 5/6                            | 1     | 327       | 740                | 17.86 | 21.94 | 18.06 | 0.42      |

Descriptive Statistics of Conditional Standard Error of Measurement at Cut Scores: List 1 S403 Online

# 2.12.1.2 Grades 2–3

### Table 2.12.1.2

Descriptive Statistics of Conditional Standard Error of Measurement at Cut Scores: List 2-3 S403 Online

| Proficiency<br>Level Cut Point | Grade | Cut Score | No. of<br>Students | Min.  | Max.  | Mean  | Std. Dev. |
|--------------------------------|-------|-----------|--------------------|-------|-------|-------|-----------|
| 1/2                            | 2     | 245       | N/A                | N/A   | N/A   | N/A   | N/A       |
| 1/2                            | 3     | 262       | 39                 | 19.90 | 20.92 | 20.13 | 0.39      |
| 2/3                            | 2     | 283       | 156                | 17.86 | 19.90 | 18.79 | 1.01      |
| 2/3                            | 3     | 300       | 379                | 17.86 | 19.90 | 18.12 | 0.60      |
| 2/4                            | 2     | 314       | 263                | 18.88 | 21.43 | 18.90 | 0.18      |
| 3/4                            | 3     | 331       | 9                  | 19.39 | 21.43 | 20.52 | 1.08      |
| 4.15                           | 2     | 330       | 972                | 18.88 | 19.90 | 19.31 | 0.23      |
| 4/5                            | 3     | 349       | 333                | 20.41 | 20.41 | 20.41 | 0.00      |
| <b>5</b> 16                    | 2     | 354       | 15                 | 21.43 | 26.02 | 23.88 | 2.37      |
| 5/6                            | 3     | 374       | 119                | 25.51 | 25.51 | 25.51 | 0.00      |

# 2.12.1.3 Grades 4-5

#### Table 2.12.1.3

| Descriptive Statistics of Conditional | Standard Error of Measurement a | t Cut Scores: List 4-5 S403 Online |
|---------------------------------------|---------------------------------|------------------------------------|
|---------------------------------------|---------------------------------|------------------------------------|

| Proficiency<br>Level Cut Point | Grade | Cut Score | No. of<br>Students | Min.  | Max.  | Mean  | Std. Dev. |
|--------------------------------|-------|-----------|--------------------|-------|-------|-------|-----------|
| 1/2                            | 4     | 275       | 95                 | 20.92 | 20.92 | 20.92 | 0.00      |
| 1/2                            | 5     | 285       | N/A                | N/A   | N/A   | N/A   | N/A       |
| 2/3                            | 4     | 313       | 558                | 17.35 | 18.37 | 17.36 | 0.09      |
| 2/3                            | 5     | 323       | 68                 | 17.35 | 17.35 | 17.35 | 0.00      |
| 3/4                            | 4     | 343       | 78                 | 18.37 | 19.39 | 19.35 | 0.20      |
| 3/4                            | 5     | 354       | 1                  | 19.90 | 19.90 | 19.90 | 0.00      |
| 4/5                            | 4     | 363       | 309                | 18.37 | 19.90 | 18.72 | 0.63      |
| 4/3                            | 5     | 375       | 1,595              | 19.39 | 19.90 | 19.39 | 0.04      |
| 516                            | 4     | 388       | N/A                | N/A   | N/A   | N/A   | N/A       |
| 5/6                            | 5     | 401       | 58                 | 20.41 | 20.41 | 20.41 | 0.00      |

### 2.12.1.4 Grades 6–8

### Table 2.12.1.4

Descriptive Statistics of Conditional Standard Error of Measurement at Cut Scores: List 6-8 S403 Online

| Proficiency<br>Level Cut Point | Grade | Cut Score | No. of<br>Students | Min.  | Max.  | Mean  | Std. Dev. |
|--------------------------------|-------|-----------|--------------------|-------|-------|-------|-----------|
|                                | б     | 294       | N/A                | N/A   | N/A   | N/A   | N/A       |
| 1/2                            | 7     | 302       | 4                  | 20.41 | 20.41 | 20.41 | 0.00      |
|                                | 8     | 308       | 163                | 19.90 | 19.90 | 19.90 | 0.00      |
|                                | 6     | 332       | N/A                | N/A   | N/A   | N/A   | N/A       |
| 2/3                            | 7     | 340       | 23                 | 17.35 | 17.35 | 17.35 | 0.00      |
|                                | 8     | 347       | 347                | 16.33 | 17.86 | 16.48 | 0.46      |
|                                | 6     | 363       | N/A                | N/A   | N/A   | N/A   | N/A       |
| 3/4                            | 7     | 370       | 3                  | 16.33 | 16.84 | 16.50 | 0.29      |
|                                | 8     | 377       | 235                | 16.84 | 17.35 | 16.97 | 0.23      |
|                                | 6     | 385       | 892                | 16.33 | 17.35 | 17.27 | 0.20      |
| 4/5                            | 7     | 394       | 87                 | 16.84 | 17.35 | 16.96 | 0.22      |
|                                | 8     | 402       | 132                | 16.84 | 18.37 | 17.79 | 0.40      |
|                                | 6     | 411       | 424                | 16.84 | 17.86 | 17.07 | 0.30      |
| 5/6                            | 7     | 420       | 4,552              | 16.84 | 17.86 | 16.84 | 0.08      |
|                                | 8     | 427       | N/A                | N/A   | N/A   | N/A   | N/A       |

# 2.12.1.5 Grades 9–12

### Table 2.12.1.5

| Proficiency     |       |           | No. of   |       |       |       |           |
|-----------------|-------|-----------|----------|-------|-------|-------|-----------|
| Level Cut Point | Grade | Cut Score | Students | Min.  | Max.  | Mean  | Std. Dev. |
|                 | 9     | 314       | N/A      | N/A   | N/A   | N/A   | N/A       |
| 1/2             | 10    | 325       | N/A      | N/A   | N/A   | N/A   | N/A       |
| 1/2             | 11    | 335       | N/A      | N/A   | N/A   | N/A   | N/A       |
|                 | 12    | 342       | 1,550    | 16.84 | 19.39 | 19.38 | 0.11      |
|                 | 9     | 353       | 52       | 16.84 | 16.84 | 16.84 | 0.00      |
| 2/3             | 10    | 358       | 37       | 16.84 | 16.84 | 16.84 | 0.00      |
| 2/3             | 11    | 364       | 2,097    | 16.33 | 16.84 | 16.34 | 0.09      |
|                 | 12    | 368       | 4        | 16.33 | 16.84 | 16.71 | 0.26      |
|                 | 9     | 383       | 158      | 16.33 | 17.35 | 16.68 | 0.24      |
| 3/4             | 10    | 389       | 23       | 16.84 | 16.84 | 16.84 | 0.00      |
|                 | 11    | 394       | 709      | 16.33 | 16.84 | 16.74 | 0.20      |
|                 | 12    | 398       | 35       | 16.84 | 17.35 | 17.08 | 0.26      |
| 4/5             | 9     | 409       | 2,793    | 16.84 | 17.35 | 17.34 | 0.05      |
|                 | 10    | 415       | 273      | 17.35 | 17.86 | 17.57 | 0.25      |
|                 | 11    | 420       | 568      | 17.86 | 19.39 | 18.37 | 0.11      |
|                 | 12    | 426       | 1,095    | 17.86 | 18.88 | 18.10 | 0.37      |
| 5/6             | 9     | 434       | 26       | 19.39 | 19.39 | 19.39 | 0.00      |
|                 | 10    | 441       | N/A      | N/A   | N/A   | N/A   | N/A       |
|                 | 11    | 447       | 122      | 20.41 | 20.41 | 20.41 | 0.00      |
|                 | 12    | 452       | 10       | 21.94 | 21.94 | 21.94 | 0.00      |

# 2.12.2 Reading

2.12.2.1 Grade 1

### Table 2.12.2.1

| Proficiency<br>Level Cut Point | Grade | Cut Score | No. of<br>Students | Min.  | Max.  | Mean  | Std. Dev. |
|--------------------------------|-------|-----------|--------------------|-------|-------|-------|-----------|
| 1/2                            | 1     | 264       | 2,134              | 10.71 | 12.24 | 12.05 | 0.40      |
| 2/3                            | 1     | 286       | 651                | 9.69  | 10.71 | 9.82  | 0.25      |
| 3/4                            | 1     | 304       | 1,032              | 9.69  | 10.20 | 9.89  | 0.25      |
| 4/5                            | 1     | 315       | 57                 | 9.69  | 10.20 | 9.93  | 0.26      |
| 5/6                            | 1     | 334       | 3,169              | 10.20 | 11.22 | 10.20 | 0.02      |

# 2.12.2.2 Grades 2-3

#### Table 2.12.2.2

| Proficiency<br>Level Cut Point | Grade | Cut Score | No. of<br>Students | Min.  | Max.  | Mean  | Std. Dev. |
|--------------------------------|-------|-----------|--------------------|-------|-------|-------|-----------|
| 1/2                            | 2     | 283       | 258                | 10.71 | 12.24 | 11.09 | 0.26      |
|                                | 3     | 297       | 789                | 10.20 | 10.71 | 10.67 | 0.14      |
| 2/3                            | 2     | 307       | 801                | 9.69  | 10.71 | 10.12 | 0.24      |
|                                | 3     | 323       | 1,790              | 9.69  | 10.20 | 9.97  | 0.25      |
| 3/4                            | 2     | 326       | 593                | 9.69  | 10.20 | 9.88  | 0.25      |
|                                | 3     | 342       | 769                | 9.69  | 10.71 | 10.28 | 0.38      |
| 4/5                            | 2     | 337       | 6,581              | 9.69  | 10.20 | 10.20 | 0.02      |
|                                | 3     | 352       | 363                | 10.71 | 11.73 | 10.78 | 0.21      |
| 5/6                            | 2     | 355       | 29                 | 11.22 | 11.73 | 11.68 | 0.16      |
|                                | 3     | 370       | 67                 | 12.76 | 12.76 | 12.76 | 0.00      |

### 2.12.2.3 Grades 4-5

### Table 2.12.2.3

Descriptive Statistics of Conditional Standard Error of Measurement at Cut Scores: Read 4-5 S403 Online

| Proficiency<br>Level Cut Point | Grade | Cut Score | No. of<br>Students | Min.  | Max.  | Mean  | Std. Dev. |
|--------------------------------|-------|-----------|--------------------|-------|-------|-------|-----------|
| 1/2                            | 4     | 307       | 388                | 11.22 | 13.27 | 11.81 | 0.24      |
|                                | 5     | 316       | 965                | 10.71 | 12.24 | 12.05 | 0.41      |
| 2/3                            | 4     | 335       | 981                | 10.20 | 11.22 | 10.70 | 0.13      |
|                                | 5     | 345       | 1,353              | 10.20 | 10.71 | 10.50 | 0.25      |
| 3/4                            | 4     | 354       | 412                | 10.20 | 10.71 | 10.30 | 0.20      |
|                                | 5     | 364       | 408                | 10.20 | 10.71 | 10.47 | 0.26      |
| 4/5                            | 4     | 364       | 318                | 10.20 | 10.71 | 10.25 | 0.14      |
|                                | 5     | 373       | 5,269              | 10.20 | 11.22 | 10.24 | 0.12      |
| 5/6                            | 4     | 382       | 7,268              | 10.20 | 10.71 | 10.21 | 0.02      |
|                                | 5     | 391       | 5,491              | 10.71 | 11.73 | 10.72 | 0.03      |

## 2.12.2.4 Grades 6-8

#### Table 2.12.2.4

Descriptive Statistics of Conditional Standard Error of Measurement at Cut Scores: Read 6-8 S403 Online

| Proficiency     |       |           | No. of   |       |       |       |           |
|-----------------|-------|-----------|----------|-------|-------|-------|-----------|
| Level Cut Point | Grade | Cut Score | Students | Min.  | Max.  | Mean  | Std. Dev. |
|                 | 6     | 323       | 582      | 11.22 | 11.73 | 11.24 | 0.08      |
| 1/2             | 7     | 329       | 75       | 11.73 | 12.24 | 11.90 | 0.24      |
|                 | 8     | 335       | 171      | 11.73 | 12.24 | 11.88 | 0.23      |
|                 | 6     | 353       | 1,149    | 10.71 | 11.73 | 10.75 | 0.15      |
| 2/3             | 7     | 360       | 3,361    | 10.20 | 12.24 | 10.25 | 0.22      |
|                 | 8     | 366       | 451      | 10.20 | 12.24 | 10.34 | 0.43      |
|                 | 6     | 373       | 574      | 10.20 | 11.22 | 10.56 | 0.29      |
| 3/4             | 7     | 380       | 309      | 10.20 | 11.73 | 10.73 | 0.23      |
|                 | 8     | 386       | 966      | 10.20 | 13.78 | 10.41 | 0.37      |
|                 | 6     | 382       | 139      | 10.20 | 11.22 | 10.78 | 0.24      |
| 4/5             | 7     | 389       | 85       | 10.20 | 11.73 | 11.04 | 0.48      |
|                 | 8     | 395       | 319      | 10.71 | 12.24 | 11.21 | 0.47      |
|                 | 6     | 399       | 174      | 10.71 | 10.71 | 10.71 | 0.00      |
| 5/6             | 7     | 406       | 1,574    | 10.71 | 10.71 | 10.71 | 0.00      |
|                 | 8     | 412       | 25       | 11.73 | 12.76 | 11.78 | 0.20      |

## 2.12.2.5 Grades 9–12

#### Table 2.12.2.5

| Descriptive Statistics of Conditional Standard Error of Measurement at Cut Scores: Read 9-12 S40 | 3 Online |
|--|----------|
|  |          |

| Proficiency<br>Level Cut Point |       | C (C      | No. of<br>Students | 24.   | м     | м     | St L D    |
|--------------------------------|-------|-----------|--------------------|-------|-------|-------|-----------|
| Level Cut Follit               | Grade | Cut Score |                    | Min.  | Max.  | Mean  | Std. Dev. |
|                                | 9     | 340       | 268                | 11.22 | 12.24 | 11.26 | 0.18      |
| 1/2                            | 10    | 344       | 295                | 11.22 | 11.73 | 11.30 | 0.19      |
| 1/2                            | 11    | 348       | 371                | 11.22 | 12.24 | 11.27 | 0.15      |
|                                | 12    | 352       | 249                | 11.22 | 11.73 | 11.26 | 0.13      |
|                                | 9     | 372       | 3,150              | 10.20 | 11.22 | 10.25 | 0.15      |
| 2/3                            | 10    | 377       | 2,366              | 10.20 | 11.22 | 10.24 | 0.16      |
| 2/3                            | 11    | 382       | 730                | 10.20 | 11.22 | 10.26 | 0.21      |
|                                | 12    | 386       | 625                | 10.20 | 11.73 | 10.34 | 0.33      |
|                                | 9     | 392       | 1,220              | 10.20 | 10.71 | 10.23 | 0.11      |
| 3/4                            | 10    | 397       | 535                | 10.20 | 11.22 | 10.37 | 0.26      |
| 5/4                            | 11    | 402       | 137                | 10.20 | 11.73 | 10.59 | 0.35      |
|                                | 12    | 407       | 89                 | 10.20 | 12.24 | 10.99 | 0.41      |
|                                | 9     | 401       | 1,997              | 10.20 | 11.73 | 10.25 | 0.15      |
| 4/5                            | 10    | 406       | 218                | 10.20 | 12.24 | 10.43 | 0.33      |
| 4/3                            | 11    | 410       | 92                 | 10.20 | 11.73 | 10.85 | 0.34      |
|                                | 12    | 414       | 214                | 10.71 | 12.24 | 10.85 | 0.37      |
| 510                            | 9     | 418       | 2,030              | 10.71 | 11.22 | 10.72 | 0.04      |
|                                | 10    | 423       | 42                 | 11.73 | 12.24 | 12.22 | 0.11      |
| 5/6                            | 11    | 427       | 2,252              | 11.22 | 13.27 | 11.23 | 0.08      |
|                                | 12    | 432       | 1,370              | 11.73 | 13.27 | 11.74 | 0.05      |

## 2.12.3 Writing

## 2.12.3.1 Grade 1

#### Table 2.12.3.1

Conditional Standard Error of Measurement at Cut Scores: Writ 1 S403 Online

| Proficiency     |       |           | SEM    |          |
|-----------------|-------|-----------|--------|----------|
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
| 1/2             | 1     | 238       | 10.31  | 8.86     |
| 2/3             | 1     | 275       | 14.23  | 11.55    |
| 3/4             | 1     | 337       | 13.43  | 12.08    |
| 4/5             | 1     | 382       | 13.16  | 11.28    |
| 5/6             | 1     | 405       | 16.65  | 13.43    |

### 2.12.3.2 Grades 2–3

#### Table 2.12.3.2

Conditional Standard Error of Measurement at Cut Scores: Writ 2-3 S403 Online

| Proficiency     |       |           | SEM    |          |
|-----------------|-------|-----------|--------|----------|
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
| 1/2             | 2     | 242       | 11.55  | 9.64     |
| 1/2             | 3     | 247       | 12.08  | 8.86     |
| 2/3             | 2     | 279       | 16.38  | 9.67     |
|                 | 3     | 283       | 16.65  | 10.20    |
| 2/4             | 2     | 341       | 17.45  | 12.62    |
| 3/4             | 3     | 346       | 17.18  | 12.62    |
| 4/5             | 2     | 388       | 15.31  | 11.01    |
| 4/5             | 3     | 394       | 15.60  | 10.74    |
| 516             | 2     | 411       | 18.26  | 11.01    |
| 5/6             | 3     | 418       | 20.14  | 11.33    |

### 2.12.3.3 Grades 4-5

#### Table 2.12.3.3

| Proficiency     |       | SEM       |        | EM       |
|-----------------|-------|-----------|--------|----------|
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
| 1/2             | 4     | 266       | 11.55  | 11.01    |
| 1/2             | 5     | 267       | 11.55  | 10.71    |
| 2/3             | 4     | 288       | 13.69  | 8.32     |
|                 | 5     | 293       | 14.50  | 8.32     |
| 3/4             | 4     | 351       | 17.99  | 12.46    |
|                 | 5     | 356       | 17.72  | 12.62    |
| 4/5             | 4     | 401       | 15.57  | 11.81    |
| 4/3             | 5     | 407       | 15.31  | 11.55    |
| 5/6             | 4     | 425       | 15.84  | 11.01    |
| 3/0             | 5     | 433       | 16.92  | 10.74    |

Conditional Standard Error of Measurement at Cut Scores: Writ 4-5 S403 Online

## 2.12.3.4 Grades 6-8

#### Table 2.12.3.4

Conditional Standard Error of Measurement at Cut Scores: Writ 6-8 S403 Online

| Proficiency     |       |           | SEM    |          |
|-----------------|-------|-----------|--------|----------|
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
|                 | 6     | 268       | 12.35  | 8.59     |
| 1/2             | 7     | 273       | 12.62  | 8.30     |
|                 | 8     | 281       | 13.43  | 8.32     |
|                 | 6     | 298       | 15.57  | 9.91     |
| 2/3             | 7     | 305       | 16.38  | 10.74    |
|                 | 8     | 311       | 16.92  | 11.14    |
|                 | 6     | 361       | 17.18  | 12.62    |
| 3/4             | 7     | 367       | 16.92  | 12.51    |
|                 | 8     | 372       | 16.65  | 12.35    |
|                 | 6     | 413       | 15.84  | 10.82    |
| 4/5             | 7     | 419       | 16.38  | 10.74    |
|                 | 8     | 424       | 16.92  | 10.74    |
|                 | 6     | 441       | 20.41  | 12.08    |
| 5/6             | 7     | 450       | 23.63  | 13.43    |
|                 | 8     | 459       | 27.66  | 15.31    |

## 2.12.3.5 Grades 9–12

#### Table 2.12.3.5

| Conditional Standard Error of Measurement at Cut Scores: | Writ 9-12 S403 Online |
|--|-----------------------|
|  |                       |

| Proficiency     |       |           | SEM    |          |
|-----------------|-------|-----------|--------|----------|
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
|                 | 9     | 289       | 11.81  | 8.59     |
| 1/2             | 10    | 298       | 12.08  | 8.65     |
| 1/2             | 11    | 308       | 13.16  | 9.40     |
|                 | 12    | 318       | 14.77  | 10.47    |
|                 | 9     | 319       | 14.77  | 10.47    |
| 2/3             | 10    | 326       | 15.84  | 11.04    |
| 2/3             | 11    | 335       | 16.65  | 11.76    |
|                 | 12    | 344       | 17.18  | 12.08    |
|                 | 9     | 378       | 17.72  | 12.62    |
| 3/4             | 10    | 385       | 17.45  | 12.35    |
| 5/4             | 11    | 391       | 17.45  | 12.35    |
|                 | 12    | 398       | 16.94  | 11.98    |
|                 | 9     | 430       | 15.31  | 11.01    |
| 4/5             | 10    | 436       | 15.33  | 10.93    |
| 4/5             | 11    | 441       | 15.57  | 11.01    |
|                 | 12    | 447       | 15.84  | 11.28    |
|                 | 9     | 469       | 20.14  | 14.23    |
| 5/6             | 10    | 479       | 23.90  | 16.65    |
| 3/0             | 11    | 490       | 29.27  | 20.41    |
|                 | 12    | 501       | 35.71  | 24.97    |

## 2.12.4 Speaking

## 2.12.4.1 Grade 1

### Table 2.12.4.1

Conditional Standard Error of Measurement at Cut Scores: Spek 1 S403 Online

| Proficiency     |       |           | SEM    |          |
|-----------------|-------|-----------|--------|----------|
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
| 1/2             | 1     | 205       | 21.06  | 15.21    |
| 2/3             | 1     | 261       | 28.37  | 20.18    |
| 3/4             | 1     | 311       | 23.98  | 17.26    |
| 4/5             | 1     | 361       | 29.83  | 20.18    |
| 5/6             | 1     | 403       | 50.31  | 32.76    |

Note: Tier Pre-A is not presented as it is not possible for Tier Pre-A students to receive a proficiency level higher than 2.

## 2.12.4.2 Grades 2-3

#### Table 2.12.4.2

Conditional Standard Error of Measurement at Cut Scores: Spek 2-3 S403 Online

| Proficiency     |       |           | SE     | EM       |
|-----------------|-------|-----------|--------|----------|
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
| 1/2             | 2     | 220       | 23.98  | 16.67    |
| 1/2             | 3     | 234       | 26.32  | 17.84    |
| 2/3             | 2     | 273       | 27.49  | 19.30    |
|                 | 3     | 283       | 26.32  | 18.72    |
| 2/4             | 2     | 322       | 23.98  | 17.55    |
| 3/4             | 3     | 332       | 24.57  | 17.84    |
| 4.15            | 2     | 374       | 34.80  | 22.81    |
| 4/5             | 3     | 386       | 40.36  | 25.74    |
| E IC            | 2     | 415       | 62.01  | 37.44    |
| 5/6             | 3     | 425       | 72.83  | 43.58    |

Note: Tier Pre-A is not presented as it is not possible for Tier Pre-A students to receive a proficiency level higher than 2.

### 2.12.4.3 Grades 4-5

#### Table 2.12.4.3

| Proficiency     |       |           | SI     | EM       |
|-----------------|-------|-----------|--------|----------|
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
| 1/2             | 4     | 246       | 22.52  | 16.09    |
| 1/2             | 5     | 258       | 23.69  | 16.09    |
| 2/3             | 4     | 293       | 27.49  | 18.72    |
|                 | 5     | 302       | 27.49  | 19.30    |
| 3/4             | 4     | 342       | 24.86  | 18.43    |
|                 | 5     | 350       | 24.57  | 17.84    |
| 4.17            | 4     | 397       | 28.37  | 18.72    |
| 4/5             | 5     | 407       | 31.00  | 19.60    |
|                 | 4     | 435       | 42.41  | 25.45    |
| 5/6             | 5     | 443       | 47.09  | 28.08    |

Conditional Standard Error of Measurement at Cut Scores: Spek 4-5 S403 Online

Note: Tier Pre-A is not presented as it is not possible for Tier Pre-A students to receive a proficiency level higher than 2.

### 2.12.4.4 Grades 6-8

#### Table 2.12.4.4

Conditional Standard Error of Measurement at Cut Scores: Spek 6-8 S403 Online

|                 |       |           |        | Ŷ        |
|-----------------|-------|-----------|--------|----------|
| Proficiency     |       |           | SI     | EM       |
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
|                 | 6     | 268       | 22.81  | 16.09    |
| 1/2             | 7     | 277       | 24.28  | 16.38    |
|                 | 8     | 284       | 25.45  | 16.67    |
|                 | 6     | 310       | 28.66  | 18.72    |
| 2/3             | 7     | 317       | 28.37  | 19.01    |
|                 | 8     | 323       | 28.08  | 19.30    |
|                 | 6     | 360       | 24.28  | 18.43    |
| 3/4             | 7     | 369       | 23.98  | 17.84    |
|                 | 8     | 377       | 23.98  | 17.55    |
|                 | 6     | 417       | 29.54  | 19.01    |
| 4/5             | 7     | 425       | 32.46  | 19.89    |
|                 | 8     | 433       | 35.10  | 21.06    |
|                 | 6     | 451       | 44.75  | 25.15    |
| 5/6             | 7     | 457       | 48.84  | 26.91    |
|                 | 8     | 463       | 53.52  | 29.25    |

Note: Tier Pre-A is not presented as it is not possible for Tier Pre-A students to receive a proficiency level higher than 2.

## 2.12.4.5 Grades 9–12

#### Table 2.12.4.5

| Proficiency     |       |           | SI     | EM       |
|-----------------|-------|-----------|--------|----------|
| Level Cut Point | Grade | Cut Score | Tier A | Tier B/C |
|                 | 9     | 290       | 23.98  | 16.38    |
| 1/2             | 10    | 295       | 24.57  | 16.96    |
| 1/2             | 11    | 299       | 25.45  | 17.26    |
|                 | 12    | 302       | 25.74  | 17.55    |
|                 | 9     | 328       | 28.37  | 19.89    |
| 2/3             | 10    | 333       | 28.37  | 20.18    |
| 2/3             | 11    | 337       | 28.08  | 20.18    |
|                 | 12    | 340       | 27.79  | 19.89    |
|                 | 9     | 385       | 23.98  | 17.26    |
| 3/4             | 10    | 393       | 23.98  | 16.96    |
| 5/4             | 11    | 400       | 24.28  | 16.96    |
|                 | 12    | 406       | 24.86  | 17.26    |
|                 | 9     | 440       | 32.46  | 21.35    |
| 4/5             | 10    | 446       | 34.51  | 22.81    |
| 4/3             | 11    | 451       | 36.85  | 23.98    |
|                 | 12    | 455       | 38.61  | 25.15    |
|                 | 9     | 468       | 46.21  | 29.54    |
| 5/6             | 10    | 471       | 48.26  | 30.71    |
| 5/0             | 11    | 474       | 50.31  | 32.17    |
|                 | 12    | 476       | 51.77  | 33.05    |

Conditional Standard Error of Measurement at Cut Scores: Spek 9-12 S403 Online

Note: Tier Pre-A is not presented as it is not possible for Tier Pre-A students to receive a proficiency level higher than 2.

## 2.13 Accuracy and Consistency

One of the main purposes of the WIDA ACCESS program is to identify the English language proficiency level of students with respect to the WIDA ELD Standards. Because of the emphasis on the classification of student performance, a psychometric property of interest is how accurately and consistently ACCESS can classify students into WIDA proficiency categories. The analyses utilize the methods outlined by Livingston and Lewis (1995) and Young and Yoon (1998), as implemented in the software program BB-CLASS (Brennan, 2004; cf. also Lee, Hanson, & Brennan, 2002).

Classification accuracy is defined conceptually as the extent to which the proficiency classifications of students based on the assessment would agree with those made on the basis of their true scores. True scores are, of course, unknown. A common practice is to estimate the true scores based on observed scores and the parameters of the model used in estimating the true scores. Classification consistency is defined conceptually as the extent to which the proficiency classifications of students agree given two independent administrations of the same or two parallel test forms. However, it is impractical to obtain repeated administrations of the same or parallel test forms because of cost, testing burden, and effects of student memory and practice. A common approach is to estimate classification consistency from a single administration of a test.

Tables in this section present three pieces of information related to the accuracy and consistency of placement into the WIDA language proficiency levels for each domain. A separate table is provided for each grade in a grade-level cluster.

The first section provides overall indices related to the accuracy and consistency of classification, as well as Cohen's kappa. Overall accuracy indicates the percentage of all students who would be classified into the same language proficiency level by both the administered test and the true score distribution. For example, an overall accuracy of 0.774 means that an estimated 77% of students would be classified into the correct performance level according to observed and true scores. Overall consistency indicates the percentage of all students who would be classified into the same language proficiency level by both the administered test and by a parallel test. For example, an overall classification consistency of 0.664 means that an estimated 66% of students would be classified into the same performance level if two parallel forms were administered. Cohen's kappa assesses the proportion of consistency classifications after removing the proportion of consistent classifications that would be expected by chance. Due to this correction, Cohen's kappa values tend to be lower than overall consistency.

The second section of the table shows accuracy and consistency information conditional on proficiency level. The conditional accuracy indices examine the percentage of students classified by both tests into a proficiency level, divided by all students classified into that proficiency level according to the true score distribution. For example, an accuracy of 0.774 at PL 3 means that an estimated 77% of students are classified into PL 3 when their true scores suggest that they would be in PL 3. The conditional consistency indices examine the percentage of students classified by

both tests into a proficiency level, divided by all students classified into that proficiency level according to a parallel test. For example, a classification consistency of 0.664 at PL 4 means that an estimated 66% of students would be classified into PL 4 when a parallel form suggests that these students would be classified in PL 4.

The third section of the table provides indices of classification accuracy, including the falsepositives and the false-negatives, and consistency at the cut points. These indices are perhaps the most important of all when using any of these as an absolute cut point (e.g., determining which students have reached PL 5). For example, to evaluate the degree of confidence that one can have in a decision made based on the domain scores as to whether or not students are being accurately (consistently) classified into PL 5 ("Bridging"), one can look at the accuracy (consistency) index provided in the table for the cut score 4/5. Note that the accuracy and consistency are generally higher at the cut points than over the proficiency levels.

In terms of classifications around a single cut point, students can be misclassified in one of two ways. Students who are below the proficiency level cut score (based on their "true score") but are classified based on the observed score as being above the cut score are considered to be false-positives. Students who are above the proficiency level cut score (based on their "true score") but are classified as being below a cut score based on the observed score are considered to be false-negatives. All other students are considered to be accurately placed either above or below the cut score. The accuracy indices at the cut score examine the percentage of students who are accurately placed above and below the cut score.

The consistency indices at the cut examine the percentage of students classified consistently above and below the cut score.

In several cases no test takers were placed into the proficiency level, and accuracy and consistency of classification conditional on that level cannot be computed. Also, when the number of test takers placed into the proficiency level is smaller than 200, BB-CLASS produces estimates that are out of bounds (for example, a negative estimated percentage of students placed in the proficiency level). In these cases, 'N/A' has been placed in the table. In addition, there are a few cases where, due to the small percentage of test takers placed into the proficiency level and the range of observed scale scores, accuracy of classification conditional on that level cannot be estimated by BB-CLASS. In such cases, a hyphen (-) has been placed in the table.

The approach taken by Livingston and Lewis (1995) and implemented here uses information about the reliability of the test, the cut scores, and the observed distribution of scores. Then, using a four-parameter beta distribution, the distribution of the true scores and of scores on a parallel form is modeled. The Livingston and Lewis procedure requires that the reliability estimate of the test form be provided in estimating the classification consistency and accuracy statistics. For Listening and Reading, the Rasch reliability estimates by grade-level clusters were used in the procedure. Since the Writing and Speaking tests were tiered, it was necessary to produce a single reliability estimate across tiers for the Livingston and Lewis procedure. This is a weighted reliability estimate across tiers (see Section 2.10).

# 2.13.1 Listening

Table 2.13.1.1

| Overall Indices   | Accuracy    | Consi    | stency    | Kappa (k) |             |
|-------------------|-------------|----------|-----------|-----------|-------------|
|                   | 0.704       | 0.6      | 540       | 0.429     |             |
| Conditional on    | Level       | Accu     | iracy     | Cons      | sistency    |
| Level             | 1           | 0.8      | 357       | 0         | .732        |
|                   | 2           | 0.3      | 313       | 0         | .223        |
|                   | 3           | 0.4      | 23        | 0         | .306        |
|                   | 4           | 0.2      | 215       | 0.152     |             |
|                   | 5           | 0.391    |           | 0.294     |             |
|                   | 6           | 0.8      | 392       | 0         | .858        |
| Indices at        | Proficiency |          | Accuracy  |           |             |
| Proficiency Level | Level Cut   |          | False     | False     |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |
|                   | 1/2         | 0.962    | 0.010     | 0.027     | 0.949       |
|                   | 2/3         | 0.953    | 0.017     | 0.030     | 0.931       |
|                   | 3/4         | 0.925    | 0.036     | 0.040     | 0.891       |
|                   | 4/5         | 0.908    | 0.042     | 0.050     | 0.870       |
|                   | 5/6         | 0.881    | 0.057     | 0.062     | 0.834       |

Accuracy and Consistency of Classification Indices: List (Grade 1) S403 Online

Table 2.13.1.2

Accuracy and Consistency of Classification Indices: List (Grade 2) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj       | ppa (k)     |
|-------------------|-------------|----------|-----------|-----------|-------------|
|                   | 0.576       | 0.491    |           | 0         | .357        |
| Conditional on    | Level       | Accu     | iracy     | Cons      | sistency    |
| Level             | 1           | 0.8      | 346       | 0         | .688        |
|                   | 2           | 0.3      | 383       | 0         | .280        |
|                   | 3           | 0.5      | 53        | 0         | .431        |
|                   | 4           | 0.1      | 82        | 0.138     |             |
|                   | 5           | 0.428    |           | 0.331     |             |
|                   | 6           | 0.8      | 318       | 0         | .730        |
| Indices at        | Proficiency |          | Accuracy  |           |             |
| Proficiency Level | Level Cut   |          | False     | False     |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |
|                   | 1/2         | 0.951    | 0.012     | 0.036     | 0.932       |
|                   | 2/3         | 0.915    | 0.045     | 0.039     | 0.876       |
|                   | 3/4         | 0.872    | 0.050     | 0.078     | 0.825       |
|                   | 4/5         | 0.870    | 0.070     | 0.059     | 0.818       |
|                   | 5/6         | 0.876    | 0.065     | 0.059     | 0.826       |

Table 2.13.1.3

| <b>Overall Indices</b> | Accuracy    | Consi    | stency    | Kappa (k) |             |
|------------------------|-------------|----------|-----------|-----------|-------------|
|                        | 0.611       | 0.529    |           | 0         | .372        |
| Conditional on         | Level       | Accuracy |           | Cons      | sistency    |
| Level                  | 1           | 0.8      | 320       | 0         | .666        |
|                        | 2           | 0.4      | 22        | 0         | .314        |
|                        | 3           | 0.5      | 517       | 0         | .394        |
|                        | 4           | 0.180    |           | 0.131     |             |
|                        | 5           | 0.400    |           | 0.300     |             |
|                        | 6           | 0.8      | 0.855     |           | .788        |
| Indices at             | Proficiency |          | Accuracy  |           |             |
| Proficiency Level      | Level Cut   |          | False     | False     |             |
| Cut Points             | Point       | Accuracy | Positives | Negatives | Consistency |
|                        | 1/2         | 0.958    | 0.013     | 0.029     | 0.941       |
|                        | 2/3         | 0.926    | 0.034     | 0.040     | 0.895       |
|                        | 3/4         | 0.896    | 0.036     | 0.068     | 0.855       |
|                        |             |          | 0.050     | 0.051     | 0.840       |
|                        | 4/5         | 0.890    | 0.059     | 0.051     | 0.840       |

Accuracy and Consistency of Classification Indices: List (Grade 3) S403 Online

Accuracy and Consistency of Classification Indices: List (Grade 4) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kappa (k) |             |
|-------------------|-------------|----------|-----------|-----------|-------------|
|                   | 0.808       | 0.758    |           | 0.419     |             |
| Conditional on    | Level       | Accu     | iracy     | Cons      | sistency    |
| Level             | 1           | 0.9      | 017       | 0         | .771        |
|                   | 2           | 0.2      | 279       | 0         | .189        |
|                   | 3           | 0.5      | 522       | 0         | .352        |
|                   | 4           | 0.2      | 254       | 0         | .175        |
|                   | 5           | 0.410    |           | 0.296     |             |
|                   | 6           | 0.9      | 26        | 0         | .911        |
| Indices at        | Proficiency |          | Accuracy  |           |             |
| Proficiency Level | Level Cut   |          | False     | False     |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |
|                   | 1/2         | 0.988    | 0.001     | 0.010     | 0.986       |
|                   | 2/3         | 0.984    | 0.007     | 0.008     | 0.974       |
|                   | 3/4         | 0.959    | 0.013     | 0.028     | 0.942       |
|                   | 4/5         | 0.942    | 0.025     | 0.033     | 0.914       |
|                   | 5/6         | 0.902    | 0.041     | 0.057     | 0.862       |

Table 2.13.1.5

| <b>Overall Indices</b> | Accuracy    | Consi    | stency    | Kaj       | Kappa (k)   |  |  |
|------------------------|-------------|----------|-----------|-----------|-------------|--|--|
|                        | 0.798       | 0.745    |           | 0         | .417        |  |  |
| Conditional on         | Level       | Accuracy |           | Cons      | sistency    |  |  |
| Level                  | 1           | 0.9      | 002       | 0         | .766        |  |  |
|                        | 2           | 0.3      | 806       | 0         | .214        |  |  |
|                        | 3           | 0.4      | 50        | 0         | .299        |  |  |
|                        | 4           | 0.2      | 0.250     |           | 0.170       |  |  |
|                        | 5           | 0.403    |           | 0.289     |             |  |  |
|                        | 6           | 0.9      | 21        | 0.906     |             |  |  |
| Indices at             | Proficiency |          | Accuracy  |           |             |  |  |
| Proficiency Level      | Level Cut   |          | False     | False     |             |  |  |
| Cut Points             | Point       | Accuracy | Positives | Negatives | Consistency |  |  |
|                        | 1/2         | 0.985    | 0.002     | 0.013     | 0.981       |  |  |
|                        | 2/3         | 0.980    | 0.008     | 0.012     | 0.969       |  |  |
|                        | 214         | 0.959    | 0.015     | 0.026     | 0.939       |  |  |
|                        | 3/4         | 0.939    | 0.010     |           |             |  |  |
|                        | 3/4<br>4/5  | 0.939    | 0.028     | 0.032     | 0.911       |  |  |

Accuracy and Consistency of Classification Indices: List (Grade 5) S403 Online

Accuracy and Consistency of Classification Indices: List (Grade 6) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kappa (k) |             |
|-------------------|-------------|----------|-----------|-----------|-------------|
|                   | 0.641       | 0.546    |           | 0.395     |             |
| Conditional on    | Level       | Accu     | iracy     | Cons      | sistency    |
| Level             | 1           | 0.8      | 880       | 0         | .717        |
|                   | 2           | 0.4      | 50        | 0         | .312        |
|                   | 3           | 0.6      | 535       | 0         | .497        |
|                   | 4           | 0.4      | 38        | 0         | .339        |
|                   | 5           | 0.488    |           | 0.383     |             |
|                   | 6           | 0.8      | 353       | 0         | .781        |
| Indices at        | Proficiency |          | Accuracy  |           |             |
| Proficiency Level | Level Cut   |          | False     | False     |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |
|                   | 1/2         | 0.985    | 0.002     | 0.013     | 0.981       |
|                   | 2/3         | 0.964    | 0.018     | 0.018     | 0.944       |
|                   | 3/4         | 0.906    | 0.036     | 0.058     | 0.872       |
|                   | 4/5         | 0.886    | 0.049     | 0.065     | 0.839       |
|                   | 5/6         | 0.876    | 0.069     | 0.055     | 0.826       |

Table 2.13.1.7

| Overall Indices   | Accuracy    | Consi    | stency    | Kappa (k) |             |
|-------------------|-------------|----------|-----------|-----------|-------------|
|                   | 0.611       | 0.518    |           | 0         | .378        |
| Conditional on    | Level       | Accuracy |           | Cons      | sistency    |
| Level             | 1           | 0.8      | 861       | 0         | .666        |
|                   | 2           | 0.3      | 99        | 0         | .277        |
|                   | 3           | 0.6      | 500       | 0         | .476        |
|                   | 4           | 0.4      | 37        | 0.344     |             |
|                   | 5           | 0.406    |           | 0.310     |             |
|                   | 6           | 0.8      | 374       | 0.795     |             |
| Indices at        | Proficiency |          | Accuracy  |           |             |
| Proficiency Level | Level Cut   |          | False     | False     |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |
|                   | 1/2         | 0.976    | 0.004     | 0.020     | 0.968       |
|                   | 2/2         | 0.947    | 0.028     | 0.025     | 0.918       |
|                   | 2/3         | 0.947    | 0.020     | 0.020     | 0.7 - 0     |
|                   | 3/4         | 0.947    | 0.025     | 0.072     | 0.844       |
|                   |             |          |           |           |             |

Accuracy and Consistency of Classification Indices: List (Grade 7) S403 Online

Accuracy and Consistency of Classification Indices: List (Grade 8) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kappa (k) |             |
|--------------------------|-------------|----------|-----------|-----------|-------------|
|                          | 0.605       | 0.517    |           | 0.376     |             |
| Conditional on           | Level       | Accu     | iracy     | Cons      | sistency    |
| Level                    | 1           | 0.8      | 332       | 0         | .648        |
|                          | 2           | 0.4      | 29        | 0         | .308        |
|                          | 3           | 0.5      | 50        | 0         | .432        |
|                          | 4           | 0.4      | -05       | 0         | .314        |
|                          | 5           | 0.367    |           | 0.277     |             |
|                          | 6           | 0.8      | 375       | 0         | .799        |
| Indices at               | Proficiency |          | Accuracy  |           |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False     |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives | Consistency |
|                          | 1/2         | 0.970    | 0.007     | 0.023     | 0.958       |
|                          | 2/3         | 0.935    | 0.032     | 0.033     | 0.904       |
|                          | 3/4         | 0.886    | 0.044     | 0.070     | 0.847       |
|                          | 4/5         | 0.884    | 0.052     | 0.064     | 0.834       |
|                          | 5/6         | 0.884    | 0.071     | 0.044     | 0.837       |

Table 2.13.1.9

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj       | ppa (k)     |  |
|-------------------|-------------|----------|-----------|-----------|-------------|--|
|                   | 0.583       | 0.478    |           | 0         | .362        |  |
| Conditional on    | Level       | Accuracy |           | Cons      | sistency    |  |
| Level             | 1           | 0.7      | 79        | 0         | .578        |  |
|                   | 2           | 0.5      | 506       | 0         | .396        |  |
|                   | 3           | 0.5      | 580       | 0         | .473        |  |
|                   | 4           | 0.4      | 0.490     |           | 0.385       |  |
|                   | 5           | 0.443    |           | 0.332     |             |  |
|                   | 6           | 0.8      | 355       | 0.746     |             |  |
| Indices at        | Proficiency |          | Accuracy  |           |             |  |
| Proficiency Level | Level Cut   |          | False     | False     |             |  |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |  |
|                   | 1/2         | 0.950    | 0.011     | 0.039     | 0.932       |  |
|                   | 2/3         | 0.903    | 0.053     | 0.044     | 0.861       |  |
|                   | 3/4         | 0.874    | 0.062     | 0.064     | 0.828       |  |
|                   | 5/ 4        | 0.0.     |           |           |             |  |
|                   | 4/5         | 0.902    | 0.052     | 0.047     | 0.858       |  |

Accuracy and Consistency of Classification Indices: List (Grade 9) S403 Online

Accuracy and Consistency of Classification Indices: List (Grade 10) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj       | ppa (k)     |
|--------------------------|-------------|----------|-----------|-----------|-------------|
|                          | 0.576       | 0.4      | 74        | 0.363     |             |
| Conditional on           | Level       | Accu     | iracy     | Cons      | sistency    |
| Level                    | 1           | 0.7      | 799       | 0         | .636        |
|                          | 2           | 0.4      | 33        | 0         | .332        |
|                          | 3           | 0.5      | 557       | 0         | .449        |
|                          | 4           | 0.4      | 85        | 0         | .380        |
|                          | 5           | 0.433    |           | 0.324     |             |
|                          | 6           | 0.8      | 359       | 0         | .750        |
| Indices at               | Proficiency |          | Accuracy  |           |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False     |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives | Consistency |
|                          | 1/2         | 0.934    | 0.018     | 0.048     | 0.909       |
|                          | 2/3         | 0.901    | 0.053     | 0.046     | 0.859       |
|                          | 3/4         | 0.877    | 0.063     | 0.061     | 0.832       |
|                          | 4/5         | 0.903    | 0.050     | 0.047     | 0.861       |
|                          | 5/6         | 0.930    | 0.046     | 0.024     | 0.900       |

Table 2.13.1.11

| Overall Indices   | Accuracy         | Consi                 | stency                                    | Kaj                         | opa (k)              |
|-------------------|------------------|-----------------------|---|-----------------------------|----------------------|
|                   | 0.569            | 0.467                 |   | 0.356                       |                      |
| Conditional on    | Level            | Accuracy              |   | Consistency                 |                      |
| Level             | 1                | 0.841                 |   | 0.693                       |                      |
|                   | 2                | 0.3                   | 331                                       | 0.243                       |                      |
|                   | 3                | 0.5                   | 593                                       | 0                           | .480                 |
|                   | 4                | 0.4                   | 35  | 0.342                       |                      |
|                   | 5                | 0.4                   | 71  | 0.355                       |                      |
|                   | 6                | 0.8                   | 327                                       | 0                           | .705                 |
| Indices at        | Proficiency      |                       | Accuracy                                  |                             |                      |
| Proficiency Level | Level Cut        |                       | False                                     | False                       |                      |
|                   | Level Cut        |                       | raise                                     | raise                       |                      |
| Cut Points        | Point            | Accuracy              | Positives                                 | Negatives                   | Consistency          |
| Cut Points        |                  | <b>Accuracy</b> 0.932 |   |                             | Consistency<br>0.905 |
| Cut Points        | Point            | •                     | Positives                                 | Negatives                   | •                    |
| Cut Points        | <b>Point</b> 1/2 | 0.932                 | Positives 0.018                           | Negatives<br>0.049          | 0.905                |
| Cut Points        | Point 1/2 2/3    | 0.932<br>0.902        | Positives           0.018           0.059 | Negatives<br>0.049<br>0.039 | 0.905<br>0.858       |

Accuracy and Consistency of Classification Indices: List (Grade 11) S403 Online

Accuracy and Consistency of Classification Indices: List (Grade 12) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.571       | 0.469    |           | 0.359       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.790    |           | 0.649       |             |
|                          | 2           | 0.4      | -03       | 0           | .304        |
|                          | 3           | 0.5      | 37        | 0           | .431        |
|                          | 4           | 0.4      | 89        | 0           | .383        |
|                          | 5           | 0.4      | 44        | 0.333       |             |
|                          | 6           | 0.8      | 342       | 0           | .719        |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.926    | 0.028     | 0.046       | 0.894       |
|                          | 2/3         | 0.894    | 0.055     | 0.051       | 0.850       |
|                          | 3/4         | 0.878    | 0.061     | 0.061       | 0.832       |
|                          | 4/5         | 0.905    | 0.052     | 0.044       | 0.863       |
|                          | 5/6         | 0.932    | 0.045     | 0.023       | 0.904       |

# 2.13.2 Reading

Table 2.13.2.1

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.614       | 0.508    |           | 0.396       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.751    |           | 0.639       |             |
|                   | 2           | 0.634    |           | 0.526       |             |
|                   | 3           | 0.5      | 519       | 0           | .414        |
|                   | 4           | 0.4      | 15        | 0.308       |             |
|                   | 5           | 0.5      | 513       | 0.385       |             |
|                   | 6           | 0.8      | 355       | 0           | .742        |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.910    | 0.047     | 0.043       | 0.873       |
|                   | 2/3         | 0.885    | 0.058     | 0.057       | 0.840       |
|                   | 3/4         | 0.902    | 0.055     | 0.043       | 0.865       |
|                   | 4/5         | 0.929    | 0.036     | 0.036       | 0.897       |
|                   | 5/6         | 0.961    | 0.025     | 0.014       | 0.944       |

Accuracy and Consistency of Classification Indices: Read (Grade 1) S403 Online

Table 2.13.2.2

Accuracy and Consistency of Classification Indices: Read (Grade 2) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.609       | 0.500    |           | 0.388       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.793    |           | 0.653       |             |
|                   | 2           | 0.6      | 538       | 0           | .528        |
|                   | 3           | 0.5      | 579       | 0           | .467        |
|                   | 4           | 0.3      | 334       | 0           | .251        |
|                   | 5           | 0.6      | 519       | 0.494       |             |
|                   | 6           | 0.7      | 75        | 0           | .632        |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.941    | 0.022     | 0.037       | 0.915       |
|                   | 2/3         | 0.894    | 0.051     | 0.055       | 0.852       |
|                   | 3/4         | 0.894    | 0.054     | 0.052       | 0.850       |
|                   | 4/5         | 0.904    | 0.059     | 0.037       | 0.867       |
|                   | 5/6         | 0.947    | 0.030     | 0.022       | 0.923       |

Table 2.13.2.3

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |  |
|-------------------|-------------|----------|-----------|-------------|-------------|--|
|                   | 0.601       | 0.497    |           | 0.389       |             |  |
| Conditional on    | Level       | Accuracy |           | Consistency |             |  |
| Level             | 1           | 0.7      | 0.770     |             | 0.645       |  |
|                   | 2           | 0.6      | 0.627     |             | .518        |  |
|                   | 3           | 0.4      | 99        | 0           | .389        |  |
|                   | 4           | 0.2      | 287       | 0.213       |             |  |
|                   | 5           | 0.6      | 503       | 0.481       |             |  |
|                   | 6           | 0.7      | '92       | 0           | .667        |  |
| Indices at        | Proficiency |          | Accuracy  |             |             |  |
| Proficiency Level | Level Cut   |          | False     | False       |             |  |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |  |
|                   | 1/2         | 0.927    | 0.032     | 0.041       | 0.897       |  |
|                   | 2/3         | 0.894    | 0.051     | 0.056       | 0.851       |  |
|                   | 3/4         | 0.898    | 0.056     | 0.046       | 0.855       |  |
|                   | 3/4         | 0.070    |           |             |             |  |
|                   | 4/5         | 0.901    | 0.061     | 0.038       | 0.863       |  |

Accuracy and Consistency of Classification Indices: Read (Grade 3) S403 Online

Accuracy and Consistency of Classification Indices: Read (Grade 4) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.622       | 0.521    |           | 0.415       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.824    |           | 0           | .687        |
|                          | 2           | 0.665    |           | 0.547       |             |
|                          | 3           | 0.5      | 37        | 0           | .423        |
|                          | 4           | 0.3      | 344       | 0           | .260        |
|                          | 5           | 0.5      | 575       | 0.466       |             |
|                          | 6           | 0.8      | 328       | 0           | .726        |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.963    | 0.012     | 0.025       | 0.948       |
|                          | 2/3         | 0.920    | 0.035     | 0.045       | 0.887       |
|                          | 3/4         | 0.896    | 0.054     | 0.050       | 0.854       |
|                          | 4/5         | 0.892    | 0.059     | 0.049       | 0.850       |
|                          | 5/6         | 0.917    | 0.048     | 0.035       | 0.883       |

Table 2.13.2.5

| <b>Overall Indices</b> | Accuracy    | Consi          | stency    | Kaj         | opa (k)        |
|------------------------|-------------|----------------|-----------|-------------|----------------|
|                        | 0.619       | 0.520          |           | 0.415       |                |
| Conditional on         | Level       | Accuracy       |           | Consistency |                |
| Level                  | 1           | 0.830          |           | 0.710       |                |
|                        | 2           | 0.6            | 547       | 0.532       |                |
|                        | 3           | 0.5            | 539       | 0           | .425           |
|                        | 4           | 0.2            | 248       | 0.184       |                |
|                        | 5           | 0.5            | 552       | 0.440       |                |
|                        | 6           | 0.8            | 322       | 0           | .719           |
| Indices at             | Proficiency |                | Accuracy  |             |                |
| Proficiency Level      | Level Cut   |                | False     | False       |                |
| Cut Points             | Point       | Accuracy       | Positives | Negatives   | Consistency    |
|                        | 1/2         | 0.952          | 0.018     | 0.031       | 0.932          |
|                        |             |                |           |             |                |
|                        | 2/3         | 0.909          | 0.043     | 0.048       | 0.872          |
|                        | 2/3<br>3/4  | 0.909<br>0.896 | 0.043     | 0.048       | 0.872<br>0.853 |
|                        |             |                |           |             |                |

Accuracy and Consistency of Classification Indices: Read (Grade 5) S403 Online

Accuracy and Consistency of Classification Indices: Read (Grade 6) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.678       | 0.584    |           | 0.465       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.907    |           | 0.854       |             |
|                          | 2           | 0.625    |           | 0.517       |             |
|                          | 3           | 0.6      | 555       | 0           | .548        |
|                          | 4           | 0.3      | 803       | 0           | .225        |
|                          | 5           | 0.5      | 514       | 0.389       |             |
|                          | 6           | 0.6      | 574       | 0           | .452        |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.929    | 0.028     | 0.043       | 0.901       |
|                          | 2/3         | 0.907    | 0.057     | 0.036       | 0.870       |
|                          | 3/4         | 0.913    | 0.043     | 0.044       | 0.879       |
|                          | 4/5         | 0.934    | 0.035     | 0.031       | 0.905       |
|                          | 5/6         | 0.968    | 0.023     | 0.009       | 0.954       |

Table 2.13.2.7

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.678       | 0.587    |           | 0.470       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.906    |           | 0.853       |             |
|                   | 2           | 0.5      | 594       | 0.486       |             |
|                   | 3           | 0.6      | 547       | 0           | .540        |
|                   | 4           | 0.2      | 287       | 0.211       |             |
|                   | 5           | 0.4      | 57        | 0.334       |             |
|                   | 6           | 0.7      | '97       | 0           | .634        |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/0         | 0.00     | 0.000     | 0.045       | 0.005       |
|                   | 1/2         | 0.926    | 0.030     | 0.045       | 0.895       |
|                   | 2/3         | 0.926    | 0.030     | 0.045       | 0.895       |
|                   |             |          |           |             |             |
|                   | 2/3         | 0.905    | 0.061     | 0.034       | 0.869       |

Accuracy and Consistency of Classification Indices: Read (Grade 7) S403 Online

Accuracy and Consistency of Classification Indices: Read (Grade 8) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |  |
|--------------------------|-------------|----------|-----------|-------------|-------------|--|
|                          | 0.670       | 0.578    |           | 0.461       |             |  |
| Conditional on           | Level       | Accuracy |           | Consistency |             |  |
| Level                    | 1           | 0.892    |           | 0           | 0.836       |  |
|                          | 2           | 0.6      | 523       | 0.513       |             |  |
|                          | 3           | 0.5      | 582       | 0           | .467        |  |
|                          | 4           | 0.2      | 251       | 0           | .186        |  |
|                          | 5           | 0.5      | 61        | 0           | .432        |  |
|                          | 6           | 0.7      | '15       | 0           | .552        |  |
| Indices at               | Proficiency |          | Accuracy  |             |             |  |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |  |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |  |
|                          | 1/2         | 0.923    | 0.034     | 0.043       | 0.892       |  |
|                          | 2/3         | 0.908    | 0.054     | 0.038       | 0.872       |  |
|                          | 3/4         | 0.917    | 0.043     | 0.040       | 0.883       |  |
|                          | 4/5         | 0.927    | 0.044     | 0.029       | 0.898       |  |
|                          | 5/6         | 0.959    | 0.022     | 0.018       | 0.940       |  |

Table 2.13.2.9

| Overall Indices   | Accuracy    | Consi          | stency         | Kaj            | ppa (k)        |
|-------------------|-------------|----------------|----------------|----------------|----------------|
|                   | 0.675       | 0.581          |                | 0.479          |                |
| Conditional on    | Level       | Accuracy       |                | Consistency    |                |
| Level             | 1           | 0.872          |                | 0.802          |                |
|                   | 2           | 0.6            | 61             | 0.559          |                |
|                   | 3           | 0.6            | 604            | 0              | .487           |
|                   | 4           | 0.2            | 267            | 0.196          |                |
|                   | 5           | 0.5            | 540            | 0.417          |                |
|                   | 6           | 0.8            | 333            | 0              | .726           |
| Indices at        | Proficiency |                | Accuracy       |                |                |
| Proficiency Level | Level Cut   |                | False          | False          |                |
| Cut Points        | Point       | Accuracy       | Positives      | Negatives      | Consistency    |
|                   | 1/2         | 0.926          | 0.030          | 0.045          | 0.896          |
|                   |             |                |                |                |                |
|                   | 2/3         | 0.913          | 0.050          | 0.037          | 0.878          |
|                   | 2/3<br>3/4  | 0.913<br>0.922 | 0.050<br>0.041 | 0.037<br>0.037 | 0.878<br>0.890 |
|                   |             |                |                |                |                |

Accuracy and Consistency of Classification Indices: Read (Grade 9) S403 Online

Accuracy and Consistency of Classification Indices: Read (Grade 10) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.657       | 0.561    |           | 0.459       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.872    |           | 0.794       |             |
|                          | 2           | 0.665    |           | 0.563       |             |
|                          | 3           | 0.5      | 89        | 0           | .476        |
|                          | 4           | 0.2      | .89       | 0           | .218        |
|                          | 5           | 0.5      | 573       | 0.449       |             |
|                          | 6           | 0.7      | '86       | 0           | .661        |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.933    | 0.025     | 0.042       | 0.907       |
|                          | 2/3         | 0.911    | 0.051     | 0.038       | 0.875       |
|                          | 3/4         | 0.910    | 0.049     | 0.041       | 0.875       |
|                          | 4/5         | 0.919    | 0.048     | 0.034       | 0.887       |
|                          | 5/6         | 0.951    | 0.026     | 0.023       | 0.929       |

Table 2.13.2.11

| <b>Overall Indices</b> | Accuracy    | Consi          | stency         | Kaj               | opa (k)        |
|------------------------|-------------|----------------|----------------|-------------------|----------------|
|                        | 0.661       | 0.567          |                | 0.467             |                |
| Conditional on         | Level       | Accuracy       |                | uracy Consistency |                |
| Level                  | 1           | 0.859 0.7      |                | .773              |                |
|                        | 2           | 0.6            | 598            | 0                 | .599           |
|                        | 3           | 0.5            | 546            | 0                 | .436           |
|                        | 4           | 0.3            | 304            | 0.226             |                |
|                        | 5           | 0.5            | 502            | 0.389             |                |
|                        | 6           | 0.8            | 343            | 0                 | .737           |
| Indices at             | Proficiency |                | Accuracy       |                   |                |
| Proficiency Level      | Level Cut   |                | False          | False             |                |
| Cut Points             | Point       | Accuracy       | Positives      | Negatives         | Consistency    |
|                        | Tomt        | Accuracy       | 1 05111765     | Tugatives         | Consistency    |
|                        | 1/2         | 0.934          | 0.025          | 0.040             | 0.908          |
|                        |             | v              |                | -                 | · ·            |
|                        | 1/2         | 0.934          | 0.025          | 0.040             | 0.908          |
|                        | 1/2<br>2/3  | 0.934<br>0.913 | 0.025<br>0.045 | 0.040             | 0.908<br>0.877 |

Accuracy and Consistency of Classification Indices: Read (Grade 11) S403 Online

Accuracy and Consistency of Classification Indices: Read (Grade 12) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.671       | 0.576    |           | 0.472       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.862    |           | 0           | .781        |
|                          | 2           | 0.7      | /03       | 0           | .607        |
|                          | 3           | 0.5      | 566       | 0           | .459        |
|                          | 4           | 0.3      | 321       | 0           | .240        |
|                          | 5           | 0.5      | 526       | 0           | .409        |
|                          | 6           | 0.8      | 339       | 0           | .717        |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.930    | 0.027     | 0.042       | 0.903       |
|                          | 2/3         | 0.912    | 0.047     | 0.041       | 0.876       |
|                          | 3/4         | 0.913    | 0.053     | 0.034       | 0.882       |
|                          | 4/5         | 0.925    | 0.039     | 0.036       | 0.895       |
|                          | 5/6         | 0.957    | 0.027     | 0.016       | 0.938       |

# 2.13.3 Writing

Table 2.13.3.1

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.749       | 0.665    |           | 0.460       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.782    |           | 0           | .676        |
|                   | 2           | 0.8      | 864       | 0           | .793        |
|                   | 3           | 0.5      | 548       | 0           | .468        |
|                   | 4           | -        |           |             | -           |
|                   | 5           | N        | /A        | ١           | N/A         |
|                   | 6           | N        | /A        | ١           | N/A         |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.924    | 0.045     | 0.031       | 0.888       |
|                   | 2/3         | 0.831    | 0.037     | 0.132       | 0.781       |
|                   | 3/4         | 0.992    | 0.008     | 0.000       | 0.994       |
|                   | 4/5         | N/A      | N/A       | N/A         | N/A         |
|                   | 5/6         | N/A      | N/A       | N/A         | N/A         |

Accuracy and Consistency of Classification Indices: Writ (Grade 1) S403 Online

Table 2.13.3.2

Accuracy and Consistency of Classification Indices: Writ (Grade 2) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.816       | 0.754    |           | 0.518       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.828    |           | 0           | .727        |
|                          | 2           | 0.7      | '80       | 0           | .672        |
|                          | 3           | 0.8      | 324       | 0           | .821        |
|                          | 4           | -        | -         |             | -           |
|                          | 5           | N        | /A        | ١           | N/A         |
|                          | 6           | N/       | Ά/A       | 1           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.976    | 0.013     | 0.012       | 0.964       |
|                          | 2/3         | 0.937    | 0.025     | 0.038       | 0.911       |
|                          | 3/4         | 0.904    | 0.096     | 0.000       | 0.878       |
|                          | 4/5         | N/A      | N/A       | N/A         | N/A         |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 2.13.3.3

| Overall Indices   | Accuracy    | Consi          | stency    | Kaj         | ppa (k)        |  |
|-------------------|-------------|----------------|-----------|-------------|----------------|--|
|                   | 0.790       | 0.714          |           | 0.507       |                |  |
| Conditional on    | Level       | Accuracy       |           | Consistency |                |  |
| Level             | 1           | 1 0.799        |           | 0           | 0.707          |  |
|                   | 2           | 0.7            | '50       | 0.631       |                |  |
|                   | 3           | 0.8            | 355       | 0           | .795           |  |
|                   | 4           | 0.6            | 59        | 0.565       |                |  |
|                   | 5           | -              |           | -           |                |  |
|                   | 6           | N/             | Ά/A       | 1           | N/A            |  |
| Indices at        | Proficiency |                | Accuracy  |             |                |  |
| Proficiency Level | Level Cut   |                | False     | False       |                |  |
| Cut Points        | Point       | Accuracy       | Positives | Negatives   | Consistency    |  |
|                   |             |                |           |             |                |  |
|                   | 1/2         | 0.981          | 0.010     | 0.009       | 0.974          |  |
|                   | 1/2<br>2/3  | 0.981<br>0.950 | 0.010     | 0.009 0.028 | 0.974<br>0.931 |  |
|                   |             |                |           |             |                |  |
|                   | 2/3         | 0.950          | 0.022     | 0.028       | 0.931          |  |

Accuracy and Consistency of Classification Indices: Writ (Grade 3) S403 Online

Accuracy and Consistency of Classification Indices: Writ (Grade 4) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.775       | 0.698    |           | 0.494       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.818    |           | 0           | .720        |
|                          | 2           | 0.6      | 514       | 0           | .471        |
|                          | 3           | 0.8      | 358       | 0           | .733        |
|                          | 4           | 0.7      | 25        | 0           | .687        |
|                          | 5           | -        | -         |             | -           |
|                          | 6           | N        | 'A        | ١           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.986    | 0.009     | 0.006       | 0.978       |
|                          | 2/3         | 0.969    | 0.014     | 0.017       | 0.957       |
|                          | 3/4         | 0.835    | 0.038     | 0.127       | 0.772       |
|                          | 4/5         | 0.985    | 0.015     | 0.000       | 0.985       |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 2.13.3.5

| <b>Overall Indices</b> | Accuracy    | Consi          | stency         | Kaj         | ppa (k)        |  |
|------------------------|-------------|----------------|----------------|-------------|----------------|--|
|                        | 0.799       | 0.729          |                | 0.552       |                |  |
| Conditional on         | Level       | Accuracy       |                | Consistency |                |  |
| Level                  | 1           | 0.783          |                | 0           | 0.674          |  |
|                        | 2           | 0.6            | 586            | 0.549       |                |  |
|                        | 3           | 0.8            | 351            | 0           | .743           |  |
|                        | 4           | 0.7            | 79             | 0.747       |                |  |
|                        | 5           | 5 -            |                | -           |                |  |
|                        | 6           | N/             | Ά/A            | ľ           | N/A            |  |
| Indices at             | Proficiency |                | Accuracy       |             |                |  |
| Proficiency Level      | Level Cut   |                | False          | False       |                |  |
| Cut Points             | Point       | Accuracy       | Positives      | Negatives   | Consistency    |  |
|                        |             |                |                |             |                |  |
|                        | 1/2         | 0.986          | 0.009          | 0.005       | 0.978          |  |
|                        | 1/2<br>2/3  | 0.986<br>0.966 | 0.009<br>0.014 | 0.005       | 0.978<br>0.953 |  |
|                        |             |                |                |             |                |  |
|                        | 2/3         | 0.966          | 0.014          | 0.020       | 0.953          |  |

Accuracy and Consistency of Classification Indices: Writ (Grade 5) S403 Online

Accuracy and Consistency of Classification Indices: Writ (Grade 6) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj       | ppa (k)     |
|-------------------|-------------|----------|-----------|-----------|-------------|
|                   | 0.774       | 0.690    |           | 0.510     |             |
| Conditional on    | Level       | Accu     | iracy     | Cons      | sistency    |
| Level             | 1           | 0.830    |           | 0         | .723        |
|                   | 2           | 0.7      | '04       | 0         | .582        |
|                   | 3           | 0.8      | 800       | 0         | .740        |
|                   | 4           | 0.7      | 29        | 0         | .620        |
|                   | 5           | N        | /A        | N/A       |             |
|                   | 6           | N        | Ά/A       | 1         | N/A         |
| Indices at        | Proficiency |          | Accuracy  |           |             |
| Proficiency Level | Level Cut   |          | False     | False     |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |
|                   | 1/2         | 0.967    | 0.015     | 0.018     | 0.952       |
|                   | 2/3         | 0.934    | 0.025     | 0.041     | 0.909       |
|                   | 3/4         | 0.872    | 0.070     | 0.058     | 0.826       |
|                   | 4/5         | N/A      | N/A       | N/A       | N/A         |
|                   | 5/6         | N/A      | N/A       | N/A       | N/A         |

Table 2.13.3.7

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.769       | 0.683    |           | 0.533       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.830    |           | 0.725       |             |
|                   | 2           | 0.7      | /15       | 0           | .601        |
|                   | 3           | 0.7      | /63       | 0           | .695        |
|                   | 4           | 0.7      | '93       | 0.697       |             |
|                   | 5           | N/       | /A        | N/A         |             |
|                   | 6           | N/       | /A        | 1           | N/A         |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.959    | 0.019     | 0.023       | 0.940       |
|                   | 2/3         | 0.926    | 0.026     | 0.048       | 0.897       |
|                   | 3/4         | 0.884    | 0.069     | 0.046       | 0.841       |
| 4/5               |             | N/A      | N/A       | N/A         | N/A         |
|                   |             |          |           |             |             |

Accuracy and Consistency of Classification Indices: Writ (Grade 7) S403 Online

Accuracy and Consistency of Classification Indices: Writ (Grade 8) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.768       | 0.681    |           | 0.526       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.867    |           | 0           | .780        |
|                          | 2           | 0.6      | 538       | 0           | .513        |
|                          | 3           | 0.7      | '92       | 0           | .723        |
|                          | 4           | 0.7      | 43        | 0           | .643        |
|                          | 5           | -        | -         |             | -           |
|                          | 6           | N        | 'A        | ١           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.958    | 0.017     | 0.025       | 0.941       |
|                          | 2/3         | 0.930    | 0.029     | 0.041       | 0.901       |
|                          | 3/4         | 0.882    | 0.064     | 0.055       | 0.837       |
|                          | 4/5         | 0.997    | 0.003     | 0.000       | 0.996       |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 2.13.3.9

| <b>Overall Indices</b> | Accuracy    | Consi          | stency    | Kaj         | ppa (k)        |  |
|------------------------|-------------|----------------|-----------|-------------|----------------|--|
|                        | 0.783       | 0.698          |           | 0.554       |                |  |
| Conditional on         | Level       | Accuracy       |           | Consistency |                |  |
| Level                  | 1           | 0.8            | 0.842     |             | 0.740          |  |
|                        | 2           | 0.6            | 577       | 0           | .551           |  |
|                        | 3           | 0.8            | 314       | 0           | .737           |  |
|                        | 4           | 0.7            | 69        | 0.703       |                |  |
|                        | 5           | -              | -         | -           |                |  |
|                        | 6           | N/             | Ά/A       | N/A         |                |  |
| Indices at             | Proficiency |                | Accuracy  |             |                |  |
| Proficiency Level      | Level Cut   |                | False     | False       |                |  |
| Cut Points             | Point       | Accuracy       | Positives | Negatives   | Consistency    |  |
|                        |             |                |           |             |                |  |
|                        | 1/2         | 0.967          | 0.015     | 0.018       | 0.953          |  |
|                        | 1/2<br>2/3  | 0.967<br>0.937 | 0.015     | 0.018       | 0.953<br>0.911 |  |
|                        |             |                |           |             |                |  |
|                        | 2/3         | 0.937          | 0.027     | 0.036       | 0.911          |  |

Accuracy and Consistency of Classification Indices: Writ (Grade 9) S403 Online

Accuracy and Consistency of Classification Indices: Writ (Grade 10) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.799       | 0.721    |           | 0.572       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.844    |           | 0           | .737        |
|                          | 2           | 0.6      | 580       | 0           | .554        |
|                          | 3           | 0.8      | 329       | 0           | .766        |
|                          | 4           | 0.7      | '90       | 0           | .723        |
|                          | 5           | -        |           |             | -           |
|                          | 6           | N        | Ά/A       | ١           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.972    | 0.012     | 0.016       | 0.960       |
|                          | 2/3         | 0.943    | 0.024     | 0.033       | 0.920       |
|                          | 3/4         | 0.895    | 0.050     | 0.055       | 0.852       |
|                          | 4/5         | 0.989    | 0.011     | 0.000       | 0.986       |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 2.13.3.11

| <b>Overall Indices</b> | Accuracy    | Consi          | stency         | Kaj            | ppa (k)        |
|------------------------|-------------|----------------|----------------|----------------|----------------|
|                        | 0.799       | 0.720          |                | 0.575          |                |
| Conditional on         | Level       | Accuracy       |                | Consistency    |                |
| Level                  | 1           | 0.860          |                | 0.761          |                |
|                        | 2           | 0.623          |                | 0.495          |                |
|                        | 3           | 0.8            | 326            | 0              | .764           |
|                        | 4           | 0.8            | 809            | 0.737          |                |
|                        | 5           | -              |                | -              |                |
|                        | 6           | N/             | Ά/A            | ľ              | N/A            |
| Indices at             | Proficiency |                | Accuracy       |                |                |
| Proficiency Level      | Level Cut   |                | False          | False          |                |
| Cut Points             | Point       | Accuracy       | Positives      | Negatives      | Consistency    |
|                        | 1/2         | 0.968          | 0.012          | 0.020          | 0.954          |
|                        |             |                |                |                |                |
|                        | 2/3         | 0.941          | 0.026          | 0.033          | 0.916          |
|                        | 2/3<br>3/4  | 0.941<br>0.896 | 0.026<br>0.051 | 0.033<br>0.053 | 0.916<br>0.854 |
|                        |             |                |                |                |                |

Accuracy and Consistency of Classification Indices: Writ (Grade 11) S403 Online

Accuracy and Consistency of Classification Indices: Writ (Grade 12) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.776       | 0.691    |           | 0.542       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.856    |           | 0           | .766        |
|                          | 2           | 0.642    |           | 0.518       |             |
|                          | 3           | 0.7      | '87       | 0           | .715        |
|                          | 4           | 0.7      | 789       | 0.702       |             |
|                          | 5           | N        | /A        | ١           | N/A         |
|                          | 6           | N        | /A        | 1           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.960    | 0.018     | 0.023       | 0.942       |
|                          | 2/3         | 0.933    | 0.027     | 0.040       | 0.906       |
|                          | 3/4         | 0.883    | 0.063     | 0.054       | 0.837       |
|                          | 4/5         | N/A      | N/A       | N/A         | N/A         |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

# 2.13.4 Speaking

Table 2.13.4.1

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.681       | 0.576    |           | 0.387       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.781    |           | 0.659       |             |
|                   | 2           | 0.793    |           | 0.674       |             |
|                   | 3           | 0.5      | 578       | 0           | .527        |
|                   | 4           | -        |           |             | -           |
|                   | 5           | -        | -         |             | -           |
|                   | 6           | N        | 'A        | 1           | N/A         |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.938    | 0.034     | 0.028       | 0.907       |
|                   | 2/3         | 0.843    | 0.041     | 0.116       | 0.787       |
|                   | 3/4         | 0.900    | 0.100     | 0.000       | 0.861       |
|                   | 4/5         | 0.997    | 0.003     | 0.000       | 0.997       |
|                   | 5/6         | N/A      | N/A       | N/A         | N/A         |

Accuracy and Consistency of Classification Indices: Spek (Grade 1) S403 Online

Table 2.13.4.2

Accuracy and Consistency of Classification Indices: Spek (Grade 2) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.669       | 0.564    |           | 0.342       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.799    |           | 0.673       |             |
|                   | 2           | 0.759    |           | 0           | .606        |
|                   | 3           | 0.5      | 577       | 0           | .530        |
|                   | 4           | -        | -         |             | -           |
|                   | 5           | -        |           |             | -           |
|                   | 6           | N/       | Ά/A       | 1           | N/A         |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.941    | 0.030     | 0.029       | 0.911       |
|                   | 2/3         | 0.785    | 0.050     | 0.165       | 0.716       |
|                   | 3/4         | 0.941    | 0.059     | 0.000       | 0.909       |
|                   | 4/5         | 0.998    | 0.002     | 0.000       | 0.998       |
|                   | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 2.13.4.3

| Overall Indices   | Accuracy         | Consis                | Consistency                               |                             | ppa (k)              |
|-------------------|------------------|-----------------------|---|-----------------------------|----------------------|
|                   | 0.643            | 0.549                 |   | 0.332                       |                      |
| Conditional on    | Level            | Accuracy              |   | Consistency                 |                      |
| Level             | 1                | 0.8                   | 28  | 0                           | .716                 |
|                   | 2                | 0.7                   | 46  | 0.578                       |                      |
|                   | 3                | 0.5                   | 40  | 0                           | .502                 |
|                   | 4                | -                     |   | -                           |                      |
|                   | 5                | -                     |   | -                           |                      |
|                   | 6                | N/                    | A I                                       |                             | N/A                  |
| Indices at        | Proficiency      |                       | Accuracy                                  |                             |                      |
| Proficiency Level | Level Cut        | False                 |   | False                       |                      |
|                   |                  |                       | 1 4150                                    |                             |                      |
| Cut Points        | Point            | Accuracy              | Positives                                 | Negatives                   | Consistency          |
| Cut Points        |                  | <b>Accuracy</b> 0.940 |   |                             | Consistency<br>0.911 |
| Cut Points        | Point            | ·                     | Positives                                 | Negatives                   | •                    |
| Cut Points        | <b>Point</b> 1/2 | 0.940                 | Positives<br>0.029                        | Negatives<br>0.031          | 0.911                |
| Cut Points        | Point 1/2 2/3    | 0.940<br>0.762        | Positives           0.029           0.038 | Negatives<br>0.031<br>0.199 | 0.911 0.698          |

Accuracy and Consistency of Classification Indices: Spek (Grade 3) S403 Online

Accuracy and Consistency of Classification Indices: Spek (Grade 4) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.638       | 0.541    |           | 0.321       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.765    |           | 0.623       |             |
|                          | 2           | 0.708    |           | 0.557       |             |
|                          | 3           | 0.6      | 542       | 0           | .573        |
|                          | 4           | 0.5      | 39        | 0.444       |             |
|                          | 5           | -        | -         | -           |             |
|                          | 6           | N        | /A        | ١           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.967    | 0.017     | 0.016       | 0.949       |
|                          | 2/3         | 0.897    | 0.037     | 0.066       | 0.855       |
|                          | 3/4         | 0.784    | 0.118     | 0.098       | 0.730       |
|                          | 4/5         | 0.986    | 0.014     | 0.000       | 0.985       |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 2.13.4.5

| <b>Overall Indices</b> | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|------------------------|-------------|----------|-----------|-------------|-------------|
|                        | 0.626       | 0.528    |           | 0.319       |             |
| Conditional on         | Level       | Accuracy |           | Consistency |             |
| Level                  | 1           | 0.769    |           | 0.640       |             |
|                        | 2           | 0.7      | '11       | 0           | .558        |
|                        | 3           | 0.5      | 579       | 0.555       |             |
|                        | 4           | -        |           | -           |             |
|                        | 5           | -        |           | -           |             |
|                        | 6           | N/       | Ά/A       | N/A         |             |
| Indices at             | Proficiency |          | Accuracy  |             |             |
| Proficiency Level      | Level Cut   |          | False     | False       |             |
| Cut Points             | Point       | Accuracy | Positives | Negatives   | Consistency |
|                        | 1/2         | 0.952    | 0.026     | 0.022       | 0.928       |
|                        |             | 0.0.10   | 0.027     | 0.094       | 0.821       |
|                        | 2/3         | 0.869    | 0.037     | 0.094       | 0.821       |
|                        | 2/3<br>3/4  | 0.869    | 0.037     | 0.094       | 0.821       |
|                        |             |          |           |             |             |

Accuracy and Consistency of Classification Indices: Spek (Grade 5) S403 Online

Accuracy and Consistency of Classification Indices: Spek (Grade 6) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |  |
|-------------------|-------------|----------|-----------|-------------|-------------|--|
|                   | 0.646       | 0.546    |           | 0.334       |             |  |
| Conditional on    | Level       | Accuracy |           | Consistency |             |  |
| Level             | 1           | 0.811    |           | 0           | 0.701       |  |
|                   | 2           | 0.708    |           | 0.528       |             |  |
|                   | 3           | 0.5      | 96        | 0           | .569        |  |
|                   | 4           | -        | -         | -           |             |  |
|                   | 5           | -        |           |             | -           |  |
|                   | 6           | N        | Ά/A       | ١           | N/A         |  |
| Indices at        | Proficiency |          | Accuracy  |             |             |  |
| Proficiency Level | Level Cut   |          | False     | False       |             |  |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |  |
|                   | 1/2         | 0.950    | 0.026     | 0.024       | 0.926       |  |
|                   | 2/3         | 0.857    | 0.032     | 0.110       | 0.802       |  |
|                   | 3/4         | 0.838    | 0.162     | 0.000       | 0.787       |  |
|                   | 4/5         | 0.998    | 0.002     | 0.000       | 0.998       |  |
|                   | 5/6         | N/A      | N/A       | N/A         | N/A         |  |

Table 2.13.4.7

| Overall Indices   | Accuracy    | Consi          | stency         | Kaj         | ppa (k)        |
|-------------------|-------------|----------------|----------------|-------------|----------------|
|                   | 0.633       | 0.532          |                | 0.329       |                |
| Conditional on    | Level       | Accuracy       |                | Consistency |                |
| Level             | 1 0.807     |                | 0.700          |             |                |
|                   | 2           | 0.6            | 588            | 0.508       |                |
|                   | 3           | 0.5            | 67             | 0           | .534           |
|                   | 4           | -              |                | -           |                |
|                   | 5           | -              |                | -           |                |
|                   | 6           | N/             | Ά/A            | N/A         |                |
| Indices at        | Proficiency |                | Accuracy       |             |                |
| Proficiency Level | Level Cut   |                | False          | False       |                |
| Cut Points        | Point       | Accuracy       | Positives      | Negatives   | Consistency    |
|                   |             |                | 1 00101100     | 0           |                |
|                   | 1/2         | 0.935          | 0.035          | 0.030       | 0.904          |
|                   | 1/2<br>2/3  |                |                | Ŭ           | •              |
|                   |             | 0.935          | 0.035          | 0.030       | 0.904          |
|                   | 2/3         | 0.935<br>0.818 | 0.035<br>0.034 | 0.030       | 0.904<br>0.758 |

Accuracy and Consistency of Classification Indices: Spek (Grade 7) S403 Online

Accuracy and Consistency of Classification Indices: Spek (Grade 8) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.680       | 0.566    |           | 0.369       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.883 0. |           | .796        |             |
|                          | 2           | 0.522    |           | 0.350       |             |
|                          | 3           | 0.6      | 543       | 0           | .612        |
|                          | 4           | -        |           | -           |             |
|                          | 5           | -        | -         |             | _           |
|                          | 6           | N        | 'A        | 1           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.931    | 0.028     | 0.042       | 0.900       |
|                          | 2/3         | 0.842    | 0.042     | 0.116       | 0.772       |
|                          | 3/4         | 0.898    | 0.102     | 0.000       | 0.841       |
|                          | 4/5         | 0.997    | 0.003     | 0.000       | 0.997       |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 2.13.4.9

| <b>Overall Indices</b> | Accuracy    | Consi          | stency         | Kaj            | ppa (k)        |
|------------------------|-------------|----------------|----------------|----------------|----------------|
|                        | 0.688       | 0.602          |                | 0.418          |                |
| Conditional on         | Level       | Accuracy       |                | Consistency    |                |
| Level                  | 1           | 0.872          |                | 0.790          |                |
|                        | 2           | 2 0.645        |                | 0.498          |                |
|                        | 3           | 0.5            | 89             | 0.540          |                |
|                        | 4           | -              |                | -              |                |
|                        | 5           | N/A            |                | N/A            |                |
|                        | 6           | N              | Ά/A            | N/A            |                |
| Indices at             | Proficiency |                | Accuracy       |                |                |
| Proficiency Level      | Level Cut   |                | False          | False          |                |
| Cut Points             | Point       | Accuracy       | Positives      | Negatives      | Consistency    |
|                        |             |                |                |                |                |
|                        | 1/2         | 0.915          | 0.039          | 0.046          | 0.878          |
|                        | 1/2<br>2/3  | 0.915<br>0.799 | 0.039<br>0.044 | 0.046<br>0.157 | 0.878<br>0.738 |
|                        |             |                |                |                |                |
|                        | 2/3         | 0.799          | 0.044          | 0.157          | 0.738          |

Accuracy and Consistency of Classification Indices: Spek (Grade 9) S403 Online

Accuracy and Consistency of Classification Indices: Spek (Grade 10) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.688       | 0.602    |           | 0.414       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.848    |           | 0.758       |             |
|                          | 2           | 0.680    |           | 0.537       |             |
|                          | 3           | 0.5      | 594       | 0.544       |             |
|                          | 4           |          |           | -           |             |
|                          | 5           | N        | /A        | N/A         |             |
|                          | 6           | N        | /A        | 1           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.914    | 0.043     | 0.043       | 0.874       |
|                          | 2/3         | 0.790    | 0.043     | 0.167       | 0.732       |
|                          | 3/4         | 0.979    | 0.021     | 0.000       | 0.968       |
|                          | 4/5         | N/A      | N/A       | N/A         | N/A         |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 2.13.4.11

| <b>Overall Indices</b> | Accuracy         | Consi                                      | stency                                    | Kappa (k)          |                      |
|------------------------|------------------|--|---|--------------------|----------------------|
|                        | 0.721            | 0.630                                      |   | 0.447              |                      |
| Conditional on         | Level            | Accuracy                                   |   | Consistency        |                      |
| Level                  | 1                | 0.885<br>0.591<br>0.679<br>-<br>N/A<br>N/A |   | 0.805              |                      |
|                        | 2                |  |   | 0.441              |                      |
|                        | 3                |  |   | 0.630              |                      |
|                        | 4                |  |   | -                  |                      |
|                        | 5                |  |   | N/A                |                      |
|                        | 6                |  |   | N/A                |                      |
| Indices at             | Proficiency      |  | Accuracy                                  |                    |                      |
| Proficiency Level      | Level Cut        |  | False                                     | False              |                      |
|                        | Level Cut        |  |   |                    |                      |
| Cut Points             | Point            | Accuracy                                   | Positives                                 | Negatives          | Consistency          |
| Cut Points             |                  | <b>Accuracy</b> 0.918                      |   | Negatives<br>0.048 | Consistency<br>0.881 |
| Cut Points             | Point            |  | Positives                                 |                    | •                    |
| Cut Points             | <b>Point</b> 1/2 | 0.918                                      | Positives 0.035                           | 0.048              | 0.881                |
| Cut Points             | Point 1/2 2/3    | 0.918                                      | Positives           0.035           0.049 | 0.048              | 0.881<br>0.744       |

Accuracy and Consistency of Classification Indices: Spek (Grade 11) S403 Online

Accuracy and Consistency of Classification Indices: Spek (Grade 12) S403 Online

| Overall Indices   | Accuracy    | Consistency |           | Kappa (k)   |             |
|-------------------|-------------|-------------|-----------|-------------|-------------|
|                   | 0.714       | 0.621       |           | 0.431       |             |
| Conditional on    | Level       | Accuracy    |           | Consistency |             |
| Level             | 1           | 0.900       |           | 0.814       |             |
|                   | 2           | 0.537       |           | 0.391       |             |
|                   | 3           | 0.673       |           | 0.629       |             |
|                   | 4           | -           |           | -           |             |
|                   | 5           | N/A         |           | N/A         |             |
|                   | 6           | N/A         |           | N/A         |             |
| Indices at        | Proficiency |             | Accuracy  |             |             |
| Proficiency Level | Level Cut   |             | False     | False       |             |
| Cut Points        | Point       | Accuracy    | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.920       | 0.030     | 0.050       | 0.882       |
|                   | 2/3         | 0.799       | 0.053     | 0.149       | 0.726       |
|                   | 3/4         | 0.985       | 0.015     | 0.000       | 0.979       |
|                   | 4/5         | N/A         | N/A       | N/A         | N/A         |
|                   | 5/6         | N/A         | N/A       | N/A         | N/A         |

# 3 Analyses of Composite Scores

Four composite scores are calculated for ACCESS Online: Oral Language, Literacy, Comprehension, and Overall. Composite scores are calculated as weighted averages of domain scale scores, as follows:

- Oral Language: 50% Listening + 50% Speaking
- Literacy: 50% Reading + 50% Writing
- Comprehension: 30% Listening + 70% Reading
- Overall Composite: 15% Listening + 15% Speaking + 35% Reading + 35% Writing

This weighting resulted from a policy decision by the WIDA Board before the first operational administration of ACCESS, based on the view that literacy skills are paramount in developing academic language proficiency.

## 3.1 Scale Score Distribution for Composites

Figures and tables in this section provide scale score distributions for each of the composites, for each grade-level cluster.

For each cluster, the figure shows the distribution of the scale scores for the composite. Scale scores are plotted on the horizontal axis, grouped into units of five scale score points (e.g., 100-104, 105-109, 110-114, etc.). The number of students with scale scores falling into each range is plotted on the vertical axis.

Each table shows, by grade and by total for the grade-level cluster:

- The number of students in the analyses (count)
- The minimum observed scale score
- The maximum observed scale score
- The mean (average) scale score
- The standard deviation (std. dev.) of the scale scores

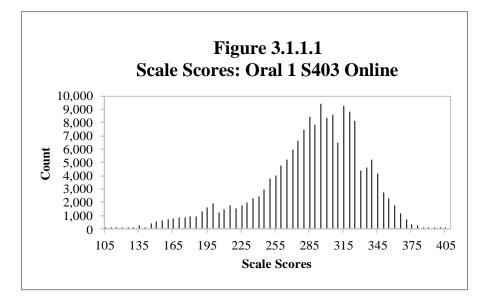
## 3.1.1 Oral

3.1.1.1 Grade 1

#### Table 3.1.1.1

Scale Score Descriptive Statistics: Oral 1 S403 Online

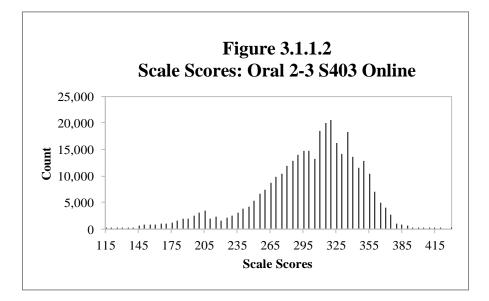
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 169,891            | 105  | 416  | 288.50 | 45.91     |
| Total | 169,891            | 105  | 416  | 288.50 | 45.91     |



## 3.1.1.2 Grades 2-3

Scale Score Descriptive Statistics: Oral 2-3 S403 Online

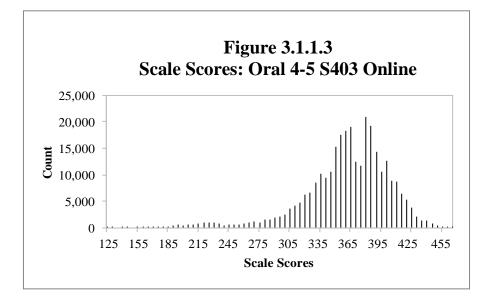
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 174,336            | 115  | 431  | 292.72 | 45.02     |
| 3     | 176,031            | 115  | 431  | 310.63 | 45.79     |
| Total | 350,367            | 115  | 431  | 301.72 | 46.29     |



## 3.1.1.3 Grades 4-5

Scale Score Descriptive Statistics: Oral 4-5 S403 Online

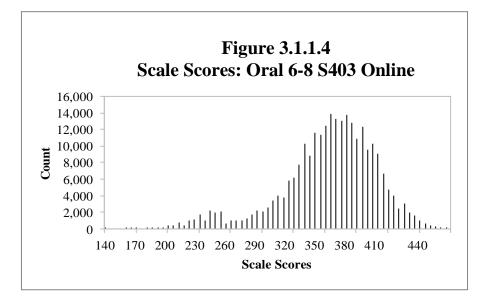
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 165,948            | 125  | 485  | 360.04 | 41.79     |
| 5     | 134,068            | 142  | 485  | 365.62 | 44.95     |
| Total | 300,016            | 125  | 485  | 362.53 | 43.32     |



### 3.1.1.4 Grades 6-8

Scale Score Descriptive Statistics: Oral 6-8 S403 Online

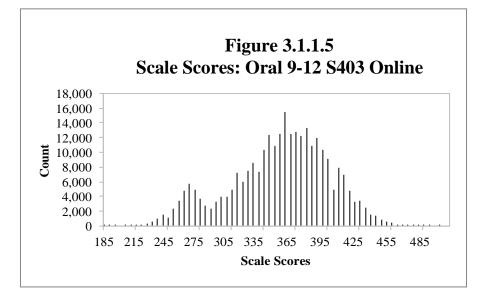
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 6     | 94,973             | 140  | 488  | 352.79 | 40.60     |
| 7     | 84,402             | 140  | 495  | 354.97 | 45.78     |
| 8     | 78,961             | 140  | 488  | 358.16 | 50.41     |
| -     | ,                  |      |      |        |           |
| Total | 258,336            | 140  | 495  | 355.14 | 45.52     |



### 3.1.1.5 Grades 9-12

Scale Score Descriptive Statistics: Oral 9-12 S403 Online

|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 9     | 91,005   | 194  | 487  | 346.02 | 45.47     |
| 10    | 74,941   | 187  | 486  | 351.49 | 46.16     |
| 11    | 66,181   | 194  | 492  | 355.79 | 47.02     |
| 12    | 49,142   | 194  | 502  | 355.86 | 46.98     |
| Total | 281,269  | 187  | 502  | 351.49 | 46.47     |



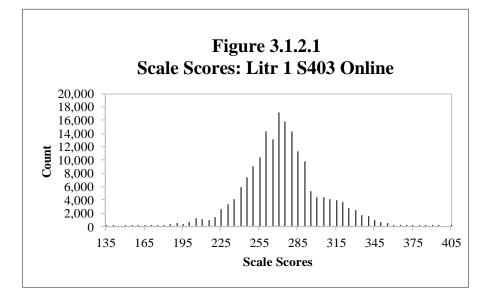
# 3.1.2 Literacy

3.1.2.1 Grade 1

#### Table 3.1.2.1

Scale Score Descriptive Statistics: Litr 1 S403 Online

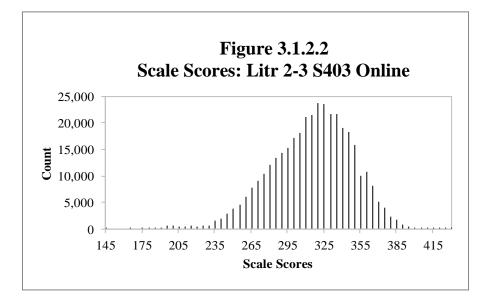
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 183,361            | 137  | 408  | 274.84 | 29.40     |
| Total | 183,361            | 137  | 408  | 274.84 | 29.40     |



## 3.1.2.2 Grades 2-3

Scale Score Descriptive Statistics: Litr 2-3 S403 Online

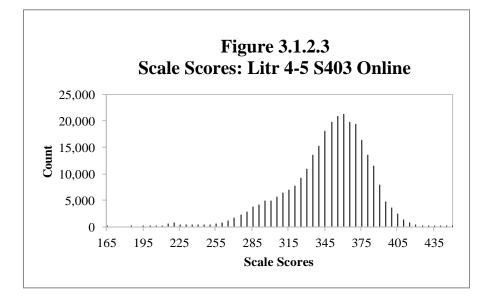
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 186,324            | 166  | 412  | 307.72 | 30.85     |
| 3     | 186,906            | 146  | 431  | 325.67 | 33.74     |
| Total | 373,230            | 146  | 431  | 316.71 | 33.55     |



## 3.1.2.3 Grades 4-5

Scale Score Descriptive Statistics: Litr 4-5 S403 Online

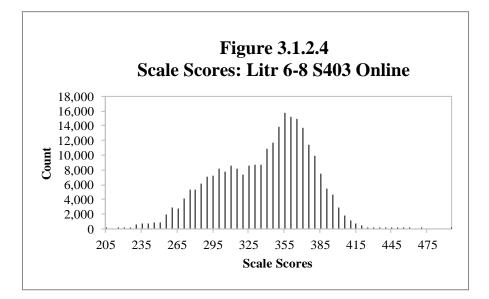
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 160,386            | 165  | 441  | 345.67 | 33.02     |
| 5     | 130,620            | 186  | 453  | 352.65 | 35.21     |
| Total | 291,006            | 165  | 453  | 348.80 | 34.19     |



### 3.1.2.4 Grades 6-8

Scale Score Descriptive Statistics: Litr 6-8 S403 Online

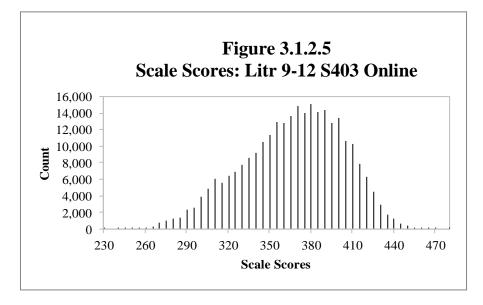
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 6     | 93,378             | 205  | 471  | 334.34 | 35.72     |
|       |                    |      |      |        |           |
| 1     | 83,957             | 205  | 458  | 339.18 | 38.76     |
| 8     | 77,979             | 215  | 496  | 344.53 | 40.70     |
| Total | 255,314            | 205  | 496  | 339.04 | 38.52     |



## 3.1.2.5 Grades 9-12

Scale Score Descriptive Statistics: Litr 9-12 S403 Online

|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 9     | 89,312   | 241  | 482  | 360.30 | 37.62     |
| 10    | 73,549   | 241  | 484  | 369.11 | 35.07     |
| 11    | 64,874   | 251  | 473  | 375.36 | 34.67     |
| 12    | 48,237   | 233  | 482  | 375.84 | 33.88     |
| Total | 275,972  | 233  | 484  | 368.90 | 36.21     |



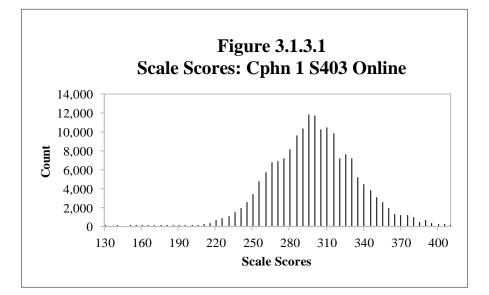
# 3.1.3 Comprehension

3.1.3.1 Grade 1

### Table 3.1.3.1

Scale Score Descriptive Statistics: Cphn 1 S403 Online

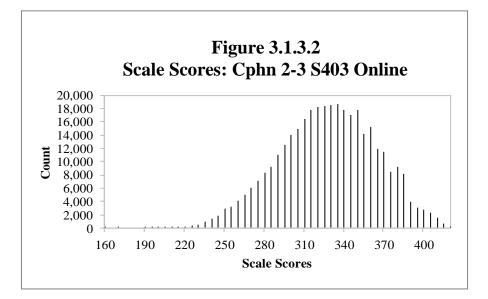
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 175,698            | 131  | 413  | 301.87 | 33.37     |
| Total | 175,698            | 131  | 413  | 301.87 | 33.37     |



## 3.1.3.2 Grades 2-3

Scale Score Descriptive Statistics: Cphn 2-3 S403 Online

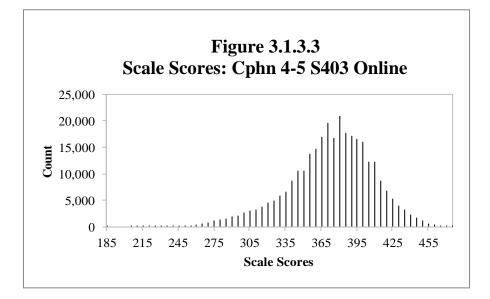
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 178,466            | 172  | 423  | 320.68 | 33.52     |
| 3     | 179,511            | 163  | 423  | 338.35 | 36.92     |
| Total | 357,977            | 163  | 423  | 329.54 | 36.36     |



## 3.1.3.3 Grades 4-5

Scale Score Descriptive Statistics: Cphn 4-5 S403 Online

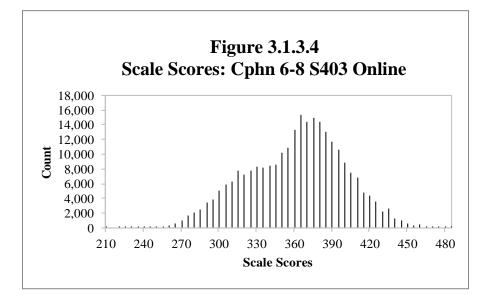
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 168,857            | 188  | 475  | 372.11 | 33.80     |
| 5     | 136,488            | 207  | 475  | 378.25 | 36.97     |
| Total | 305,345            | 188  | 475  | 374.85 | 35.39     |



## 3.1.3.4 Grades 6-8

Scale Score Descriptive Statistics: Cphn 6-8 S403 Online

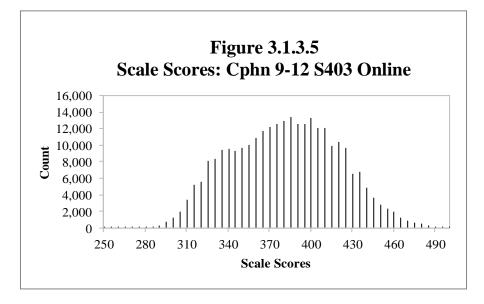
|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 6     | 96,582   | 224  | 487  | 358.12 | 34.79     |
| 7     | 86,076   | 212  | 487  | 363.59 | 38.84     |
| 8     | 80,182   | 214  | 487  | 369.70 | 41.89     |
| Total | 262,840  | 212  | 487  | 363.44 | 38.68     |



## 3.1.3.5 Grades 9-12

Scale Score Descriptive Statistics: Cphn 9-12 S403 Online

| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 9     | 91,152             | 258  | 500  | 375.56 | 37.98     |
| 10    | 75,172             | 254  | 500  | 382.56 | 38.41     |
| 11    | 66,590             | 265  | 500  | 388.55 | 38.80     |
| 12    | 49,226             | 268  | 500  | 388.97 | 37.80     |
| Total | 282,140            | 254  | 500  | 382.83 | 38.67     |

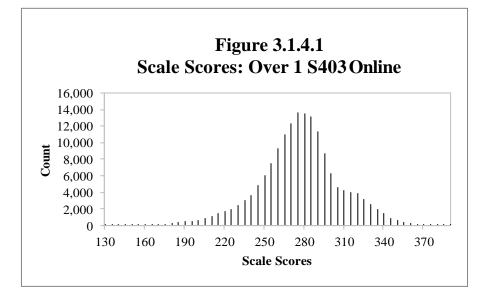


# 3.1.4 Overall

3.1.4.1 Grade 1

| Scale Score I | Descriptive | Statistics  | Over 1 | \$403 | Online |
|---------------|-------------|-------------|--------|-------|--------|
| Scale Scole I | Jeschpuve   | Statistics. | Over 1 | 3405  | Onnie  |

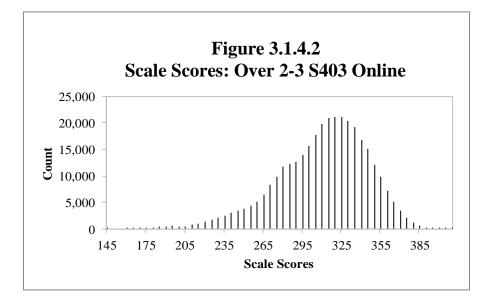
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 1     | 165,022            | 131  | 391  | 278.65 | 30.30     |
| Total | 165,022            | 131  | 391  | 278.65 | 30.30     |



## 3.1.4.2 Grades 2–3

Scale Score Descriptive Statistics: Over 2-3 S403 Online

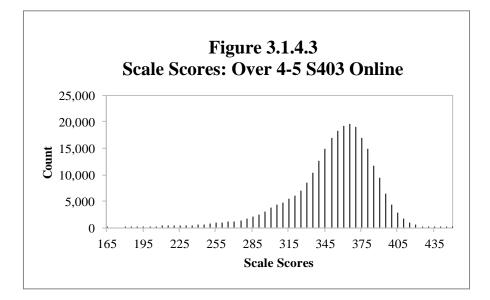
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 2     | 167,720            | 162  | 402  | 302.95 | 32.41     |
| 3     | 169,474            | 146  | 411  | 320.90 | 34.83     |
| Total | 337,194            | 146  | 411  | 311.97 | 34.83     |



## 3.1.4.3 Grades 4-5

Scale Score Descriptive Statistics: Over 4-5 S403 Online

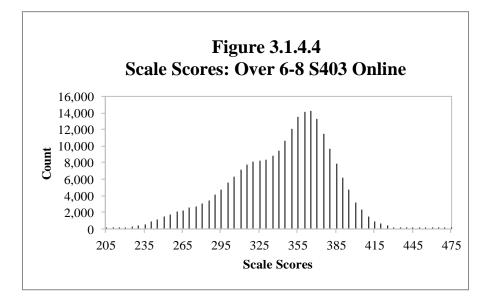
| Grade | No. of<br>Students | Min. | Max. | Mean   | Std. Dev. |
|-------|--------------------|------|------|--------|-----------|
| 4     | 144,258            | 168  | 445  | 349.74 | 33.47     |
| 5     | 118,083            | 188  | 450  | 356.26 | 36.04     |
| Total | 262,341            | 168  | 450  | 352.67 | 34.80     |



## 3.1.4.4 Grades 6-8

Scale Score Descriptive Statistics: Over 6-8 S403 Online

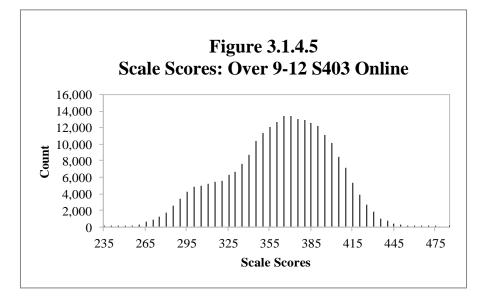
|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 6     | 83,413   | 208  | 476  | 339.68 | 34.62     |
| 7     | 74,786   | 207  | 456  | 343.68 | 38.58     |
| 8     | 70,081   | 209  | 470  | 348.29 | 41.54     |
| Total | 228,280  | 207  | 476  | 343.63 | 38.31     |



## 3.1.4.5 Grades 9-12

Scale Score Descriptive Statistics: Over 9-12 S403 Online

|       | No. of   |      |      |        |           |
|-------|----------|------|------|--------|-----------|
| Grade | Students | Min. | Max. | Mean   | Std. Dev. |
| 9     | 80,043   | 236  | 477  | 355.79 | 37.84     |
| 10    | 66,038   | 236  | 473  | 363.60 | 36.14     |
| 11    | 57,988   | 248  | 473  | 369.27 | 36.10     |
| 12    | 43,523   | 241  | 488  | 369.58 | 35.12     |
| Total | 247,592  | 236  | 488  | 363.45 | 36.97     |



# 3.2 Proficiency Level Distribution for Composites

Figures and tables in this section provide information on the proficiency level distribution for each of the composites for each grade-level cluster.

In each figure, the horizontal axis shows the six WIDA proficiency levels. The vertical axis shows the percentage of students. Each bar shows the percentage of students who were placed into each proficiency level in the domain being tested on this test form.

The tables in this section present, by grade and by total for the grade-level cluster:

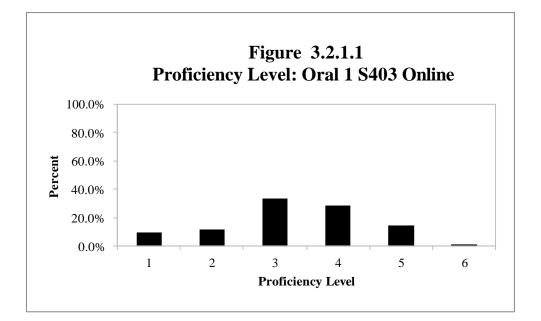
- The WIDA proficiency level designation (1–6)
- The number of students (count) whose performance on the test form placed them into that proficiency level in the domain being tested
- The percentage of students, out of the total number of students taking the form, who were placed into that proficiency level in the domain being tested

# 3.2.1 Oral

3.2.1.1 Grade 1

| Proficiency Level | Distribution: | Oral 1 S403 Online |
|-------------------|---------------|--------------------|
| Tronciency Devel  | Distribution. | oful i bios offine |

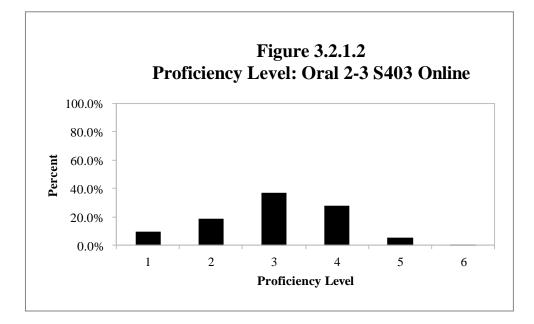
|       | Gra     | de 1    | Total   |         |  |
|-------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent |  |
| 1     | 16,268  | 9.58%   | 16,268  | 9.58%   |  |
| 2     | 20,630  | 12.14%  | 20,630  | 12.14%  |  |
| 3     | 56,868  | 33.47%  | 56,868  | 33.47%  |  |
| 4     | 48,739  | 28.69%  | 48,739  | 28.69%  |  |
| 5     | 24,819  | 14.61%  | 24,819  | 14.61%  |  |
| 6     | 2,567   | 1.51%   | 2,567   | 1.51%   |  |
| Total | 169,891 | 100.00% | 169,891 | 100.00% |  |



## 3.2.1.2 Grades 2-3

Proficiency Level Distribution: Oral 2-3 S403 Online

|       | Grade 2 |         | Grade 3 |         | Total   |         |
|-------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 17,801  | 10.21%  | 16,131  | 9.16%   | 33,932  | 9.68%   |
| 2     | 37,002  | 21.22%  | 29,877  | 16.97%  | 66,879  | 19.09%  |
| 3     | 65,597  | 37.63%  | 65,455  | 37.18%  | 131,052 | 37.40%  |
| 4     | 43,223  | 24.79%  | 55,613  | 31.59%  | 98,836  | 28.21%  |
| 5     | 10,297  | 5.91%   | 8,792   | 4.99%   | 19,089  | 5.45%   |
| 6     | 416     | 0.24%   | 163     | 0.09%   | 579     | 0.17%   |
| Total | 174,336 | 100.00% | 176,031 | 100.00% | 350,367 | 100.00% |

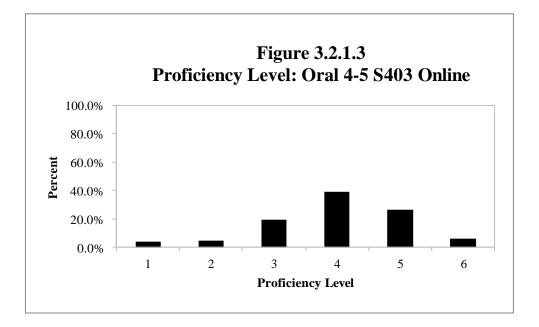


## 3.2.1.3 Grades 4-5

#### Table 3.2.1.3

Proficiency Level Distribution: Oral 4-5 S403 Online

|       | Grade 4 |         | Grade 5 |         | Total   |         |
|-------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 5,431   | 3.27%   | 6,022   | 4.49%   | 11,453  | 3.82%   |
| 2     | 7,476   | 4.51%   | 7,033   | 5.25%   | 14,509  | 4.84%   |
| 3     | 31,198  | 18.80%  | 27,148  | 20.25%  | 58,346  | 19.45%  |
| 4     | 63,240  | 38.11%  | 53,649  | 40.02%  | 116,889 | 38.96%  |
| 5     | 47,417  | 28.57%  | 32,897  | 24.54%  | 80,314  | 26.77%  |
| 6     | 11,186  | 6.74%   | 7,319   | 5.46%   | 18,505  | 6.17%   |
| Total | 165,948 | 100.00% | 134,068 | 100.00% | 300,016 | 100.00% |



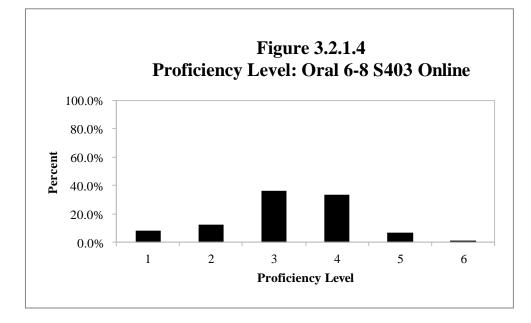
3-25

## 3.2.1.4 Grades 6-8

#### Table 3.2.1.4

Proficiency Level Distribution: Oral 6-8 S403 Online

|       | Grade 6 |         | Grade 7 |         | Grade 8 |         | Total   |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 5,443   | 5.73%   | 7,387   | 8.75%   | 8,781   | 11.12%  | 21,611  | 8.37%   |
| 2     | 10,010  | 10.54%  | 11,217  | 13.29%  | 11,635  | 14.74%  | 32,862  | 12.72%  |
| 3     | 36,443  | 38.37%  | 31,350  | 37.14%  | 26,959  | 34.14%  | 94,752  | 36.68%  |
| 4     | 35,147  | 37.01%  | 27,528  | 32.62%  | 25,001  | 31.66%  | 87,676  | 33.94%  |
| 5     | 7,150   | 7.53%   | 5,924   | 7.02%   | 5,652   | 7.16%   | 18,726  | 7.25%   |
| 6     | 780     | 0.82%   | 996     | 1.18%   | 933     | 1.18%   | 2,709   | 1.05%   |
| Total | 94,973  | 100.00% | 84,402  | 100.00% | 78,961  | 100.00% | 258,336 | 100.00% |

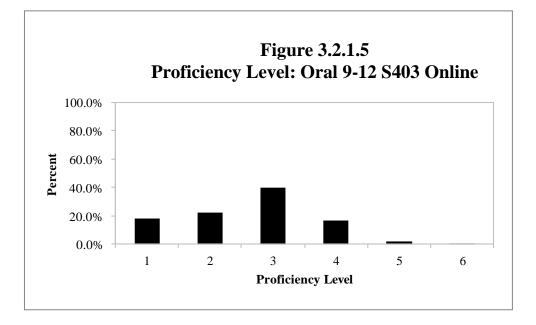


3-26

## 3.2.1.5 Grades 9-12

|       | Grade 9 |         | Grade 10 |         | Grade 11 |         | Grade 12 |         | Total   |         |
|-------|---------|---------|----------|---------|----------|---------|----------|---------|---------|---------|
| Level | Count   | Percent | Count    | Percent | Count    | Percent | Count    | Percent | Count   | Percent |
| 1     | 15,570  | 17.11%  | 13,268   | 17.70%  | 12,537   | 18.94%  | 10,326   | 21.01%  | 51,701  | 18.38%  |
| 2     | 21,438  | 23.56%  | 16,281   | 21.73%  | 14,164   | 21.40%  | 10,207   | 20.77%  | 62,090  | 22.07%  |
| 3     | 35,073  | 38.54%  | 30,334   | 40.48%  | 26,569   | 40.15%  | 20,906   | 42.54%  | 112,882 | 40.13%  |
| 4     | 16,559  | 18.20%  | 13,051   | 17.42%  | 11,222   | 16.96%  | 6,911    | 14.06%  | 47,743  | 16.97%  |
| 5     | 2,123   | 2.33%   | 1,798    | 2.40%   | 1,535    | 2.32%   | 721      | 1.47%   | 6,177   | 2.20%   |
| 6     | 242     | 0.27%   | 209      | 0.28%   | 154      | 0.23%   | 71       | 0.14%   | 676     | 0.24%   |
| Total | 91,005  | 100.00% | 74,941   | 100.00% | 66,181   | 100.00% | 49,142   | 100.00% | 281,269 | 100.00% |

Proficiency Level Distribution: Oral 9-12 S403 Online



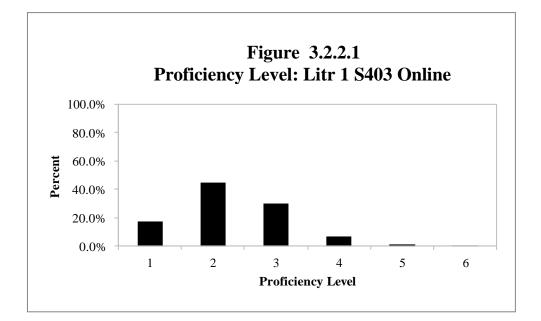
# 3.2.2 Literacy

3.2.2.1 Grade 1

#### Table 3.2.2.1

Proficiency Level Distribution: Litr 1 S403 Online

|       | Gra     | de 1    | Total   |         |  |
|-------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent |  |
| 1     | 32,238  | 17.58%  | 32,238  | 17.58%  |  |
| 2     | 82,333  | 44.90%  | 82,333  | 44.90%  |  |
| 3     | 54,653  | 29.81%  | 54,653  | 29.81%  |  |
| 4     | 12,156  | 6.63%   | 12,156  | 6.63%   |  |
| 5     | 1,815   | 0.99%   | 1,815   | 0.99%   |  |
| 6     | 166     | 0.09%   | 166     | 0.09%   |  |
| Total | 183,361 | 100.00% | 183,361 | 100.00% |  |

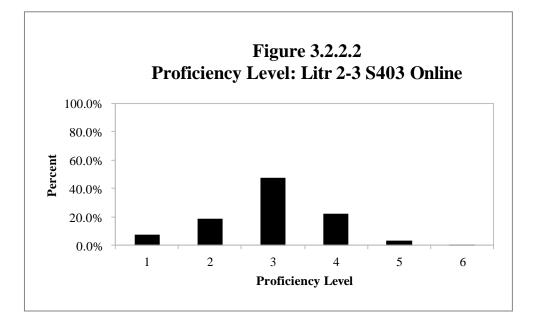


## 3.2.2.2 Grades 2-3

#### Table 3.2.2.2

Proficiency Level Distribution: Litr 2-3 S403 Online

|       | Grade 2 |         | Gra     | de 3    | Total   |         |  |
|-------|---------|---------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 14,033  | 7.53%   | 13,474  | 7.21%   | 27,507  | 7.37%   |  |
| 2     | 40,724  | 21.86%  | 29,061  | 15.55%  | 69,785  | 18.70%  |  |
| 3     | 93,705  | 50.29%  | 83,174  | 44.50%  | 176,879 | 47.39%  |  |
| 4     | 33,312  | 17.88%  | 51,125  | 27.35%  | 84,437  | 22.62%  |  |
| 5     | 4,130   | 2.22%   | 8,972   | 4.80%   | 13,102  | 3.51%   |  |
| 6     | 420     | 0.23%   | 1,100   | 0.59%   | 1,520   | 0.41%   |  |
| Total | 186,324 | 100.00% | 186,906 | 100.00% | 373,230 | 100.00% |  |

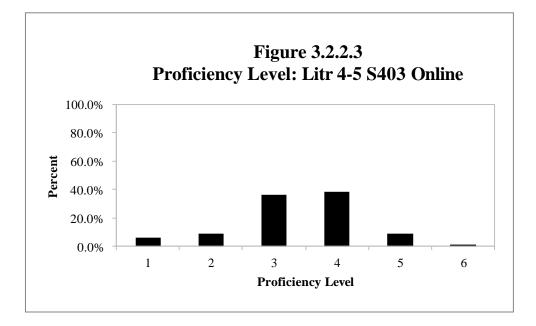


3-29

## 3.2.2.3 Grades 4-5

Proficiency Level Distribution: Litr 4-5 S403 Online

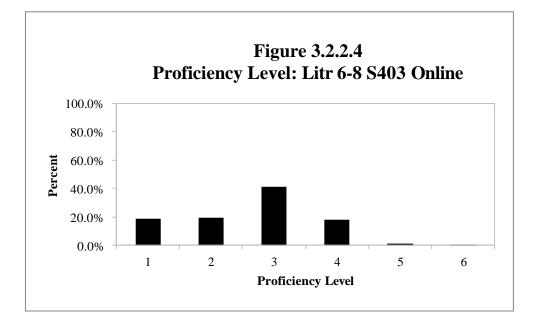
|       | Grade 4 |         | Gra     | de 5    | Total   |         |  |
|-------|---------|---------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 8,774   | 5.47%   | 8,556   | 6.55%   | 17,330  | 5.96%   |  |
| 2     | 13,902  | 8.67%   | 12,237  | 9.37%   | 26,139  | 8.98%   |  |
| 3     | 60,909  | 37.98%  | 45,285  | 34.67%  | 106,194 | 36.49%  |  |
| 4     | 61,580  | 38.39%  | 50,507  | 38.67%  | 112,087 | 38.52%  |  |
| 5     | 13,384  | 8.34%   | 12,362  | 9.46%   | 25,746  | 8.85%   |  |
| 6     | 1,837   | 1.15%   | 1,673   | 1.28%   | 3,510   | 1.21%   |  |
| Total | 160,386 | 100.00% | 130,620 | 100.00% | 291,006 | 100.00% |  |



## 3.2.2.4 Grades 6-8

Proficiency Level Distribution: Litr 6-8 S403 Online

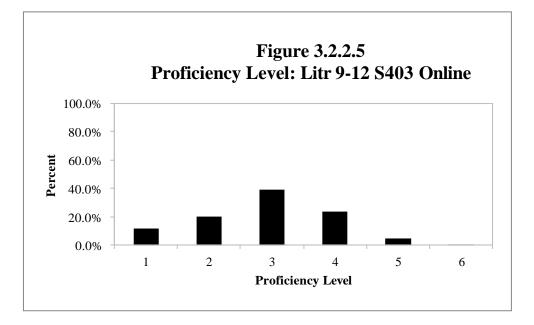
|       | Grade 6 |         | Grade 7 |         | Grade 8 |         | Total   |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 16,261  | 17.41%  | 15,858  | 18.89%  | 16,202  | 20.78%  | 48,321  | 18.93%  |
| 2     | 17,134  | 18.35%  | 17,725  | 21.11%  | 15,647  | 20.07%  | 50,506  | 19.78%  |
| 3     | 42,989  | 46.04%  | 33,661  | 40.09%  | 28,573  | 36.64%  | 105,223 | 41.21%  |
| 4     | 16,026  | 17.16%  | 15,275  | 18.19%  | 15,873  | 20.36%  | 47,174  | 18.48%  |
| 5     | 901     | 0.96%   | 1,338   | 1.59%   | 1,596   | 2.05%   | 3,835   | 1.50%   |
| 6     | 67      | 0.07%   | 100     | 0.12%   | 88      | 0.11%   | 255     | 0.10%   |
| Total | 93,378  | 100.00% | 83,957  | 100.00% | 77,979  | 100.00% | 255,314 | 100.00% |



## 3.2.2.5 Grades 9-12

| TIONCICI | Proficiency Level Distribution: Litr 9-12 S403 Online |         |          |         |          |         |          |         |         |         |  |
|----------|---|---------|----------|---------|----------|---------|----------|---------|---------|---------|--|
|          | Grade 9   |         | Grade 10 |         | Grade 11 |         | Grade 12 |         | Total   |         |  |
| Level    | Count   | Percent | Count    | Percent | Count    | Percent | Count    | Percent | Count   | Percent |  |
| 1        | 13,130  | 14.70%  | 7,728    | 10.51%  | 6,654    | 10.26%  | 6,021    | 12.48%  | 33,533  | 12.15%  |  |
| 2        | 16,653  | 18.65%  | 14,445   | 19.64%  | 13,284   | 20.48%  | 11,211   | 23.24%  | 55,593  | 20.14%  |  |
| 3        | 33,649  | 37.68%  | 29,139   | 39.62%  | 25,120   | 38.72%  | 19,544   | 40.52%  | 107,452 | 38.94%  |  |
| 4        | 21,104  | 23.63%  | 18,328   | 24.92%  | 16,266   | 25.07%  | 9,918    | 20.56%  | 65,616  | 23.78%  |  |
| 5        | 4,517   | 5.06%   | 3,749    | 5.10%   | 3,479    | 5.36%   | 1,530    | 3.17%   | 13,275  | 4.81%   |  |
| 6        | 259   | 0.29%   | 160      | 0.22%   | 71       | 0.11%   | 13       | 0.03%   | 503     | 0.18%   |  |
| Total    | 89,312  | 100.00% | 73,549   | 100.00% | 64,874   | 100.00% | 48,237   | 100.00% | 275,972 | 100.00% |  |

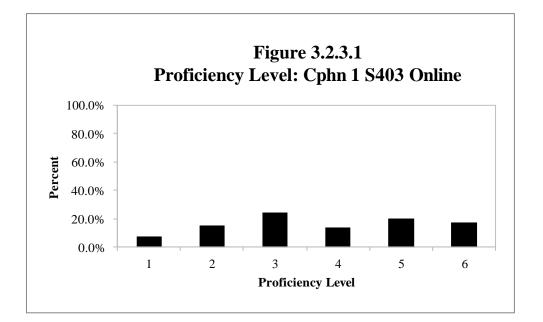
Proficiency Level Distribution: Litr 9-12 S403 Online



# 3.2.3 Comprehension

3.2.3.1 Grade 1

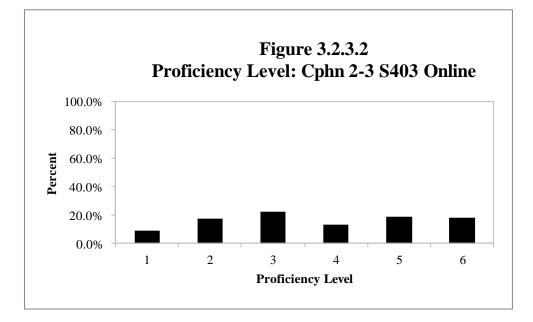
|       | Gra     | de 1    | To      | otal    |
|-------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent |
| 1     | 13,495  | 7.68%   | 13,495  | 7.68%   |
| 2     | 27,464  | 15.63%  | 27,464  | 15.63%  |
| 3     | 42,973  | 24.46%  | 42,973  | 24.46%  |
| 4     | 24,810  | 14.12%  | 24,810  | 14.12%  |
| 5     | 35,904  | 20.44%  | 35,904  | 20.44%  |
| 6     | 31,052  | 17.67%  | 31,052  | 17.67%  |
| Total | 175,698 | 100.00% | 175,698 | 100.00% |



## 3.2.3.2 Grades 2-3

Proficiency Level Distribution: Cphn 2-3 S403 Online

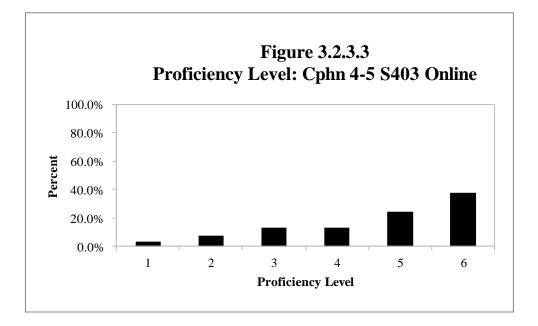
|       | Grade 2 |         | Gra     | de 3    | Total   |         |  |
|-------|---------|---------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 13,969  | 7.83%   | 17,148  | 9.55%   | 31,117  | 8.69%   |  |
| 2     | 33,380  | 18.70%  | 29,380  | 16.37%  | 62,760  | 17.53%  |  |
| 3     | 43,050  | 24.12%  | 38,238  | 21.30%  | 81,288  | 22.71%  |  |
| 4     | 25,596  | 14.34%  | 22,863  | 12.74%  | 48,459  | 13.54%  |  |
| 5     | 33,885  | 18.99%  | 34,283  | 19.10%  | 68,168  | 19.04%  |  |
| 6     | 28,586  | 16.02%  | 37,599  | 20.95%  | 66,185  | 18.49%  |  |
| Total | 178,466 | 100.00% | 179,511 | 100.00% | 357,977 | 100.00% |  |



### 3.2.3.3 Grades 4-5

Proficiency Level Distribution: Cphn 4-5 S403 Online

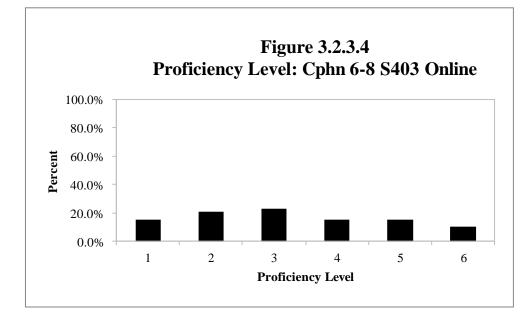
|       | Grade 4 |         | Gra     | de 5    | Total   |         |  |
|-------|---------|---------|---------|---------|---------|---------|--|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |  |
| 1     | 4,667   | 2.76%   | 6,795   | 4.98%   | 11,462  | 3.75%   |  |
| 2     | 12,384  | 7.33%   | 11,573  | 8.48%   | 23,957  | 7.85%   |  |
| 3     | 21,932  | 12.99%  | 18,538  | 13.58%  | 40,470  | 13.25%  |  |
| 4     | 21,539  | 12.76%  | 17,965  | 13.16%  | 39,504  | 12.94%  |  |
| 5     | 42,432  | 25.13%  | 32,201  | 23.59%  | 74,633  | 24.44%  |  |
| 6     | 65,903  | 39.03%  | 49,416  | 36.21%  | 115,319 | 37.77%  |  |
| Total | 168,857 | 100.00% | 136,488 | 100.00% | 305,345 | 100.00% |  |



### 3.2.3.4 Grades 6-8

Proficiency Level Distribution: Cphn 6-8 S403 Online

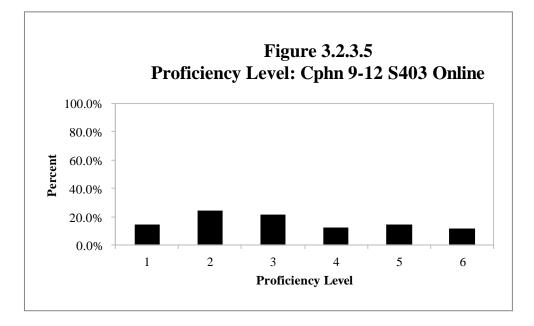
|       | Grade 6 |         | Grade 7 |         | Grade 8 |         | Total   |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 11,983  | 12.41%  | 13,690  | 15.90%  | 14,137  | 17.63%  | 39,810  | 15.15%  |
| 2     | 20,786  | 21.52%  | 18,150  | 21.09%  | 15,737  | 19.63%  | 54,673  | 20.80%  |
| 3     | 23,988  | 24.84%  | 19,709  | 22.90%  | 16,719  | 20.85%  | 60,416  | 22.99%  |
| 4     | 15,617  | 16.17%  | 12,848  | 14.93%  | 11,119  | 13.87%  | 39,584  | 15.06%  |
| 5     | 16,304  | 16.88%  | 12,035  | 13.98%  | 12,002  | 14.97%  | 40,341  | 15.35%  |
| 6     | 7,904   | 8.18%   | 9,644   | 11.20%  | 10,468  | 13.06%  | 28,016  | 10.66%  |
| Total | 96,582  | 100.00% | 86,076  | 100.00% | 80,182  | 100.00% | 262,840 | 100.00% |



## 3.2.3.5 Grades 9–12

|       | Grade 9 |         | Grade 10 |         | Grade 11 |         | Grade 12 |         | Total   |         |
|-------|---------|---------|----------|---------|----------|---------|----------|---------|---------|---------|
| Level | Count   | Percent | Count    | Percent | Count    | Percent | Count    | Percent | Count   | Percent |
| 1     | 13,056  | 14.32%  | 10,940   | 14.55%  | 9,819    | 14.75%  | 8,040    | 16.33%  | 41,855  | 14.83%  |
| 2     | 24,046  | 26.38%  | 17,835   | 23.73%  | 15,689   | 23.56%  | 12,270   | 24.93%  | 69,840  | 24.75%  |
| 3     | 19,428  | 21.31%  | 16,506   | 21.96%  | 13,609   | 20.44%  | 10,649   | 21.63%  | 60,192  | 21.33%  |
| 4     | 10,980  | 12.05%  | 9,408    | 12.52%  | 7,962    | 11.96%  | 6,485    | 13.17%  | 34,835  | 12.35%  |
| 5     | 12,822  | 14.07%  | 10,921   | 14.53%  | 10,681   | 16.04%  | 6,933    | 14.08%  | 41,357  | 14.66%  |
| 6     | 10,820  | 11.87%  | 9,562    | 12.72%  | 8,830    | 13.26%  | 4,849    | 9.85%   | 34,061  | 12.07%  |
| Total | 91,152  | 100.00% | 75,172   | 100.00% | 66,590   | 100.00% | 49,226   | 100.00% | 282,140 | 100.00% |

Proficiency Level Distribution: Cphn 9-12 S403 Online



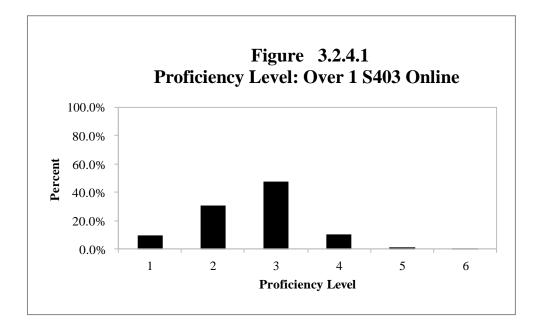
# 3.2.4 Overall

## 3.2.4.1 Grade 1

#### Table 3.2.4.1

| Grade 1 Total |         |         |         |         |  |  |  |
|---------------|---------|---------|---------|---------|--|--|--|
|               | Gra     | de I    | Total   |         |  |  |  |
| Level         | Count   | Percent | Count   | Percent |  |  |  |
| 1             | 16,588  | 10.05%  | 16,588  | 10.05%  |  |  |  |
| 2             | 50,813  | 30.79%  | 50,813  | 30.79%  |  |  |  |
| 3             | 78,148  | 47.36%  | 78,148  | 47.36%  |  |  |  |
| 4             | 16,688  | 10.11%  | 16,688  | 10.11%  |  |  |  |
| 5             | 2,640   | 1.60%   | 2,640   | 1.60%   |  |  |  |
| 6             | 145     | 0.09%   | 145     | 0.09%   |  |  |  |
| Total         | 165,022 | 100.00% | 165,022 | 100.00% |  |  |  |

Proficiency Level Distribution: Over 1 S403 Online

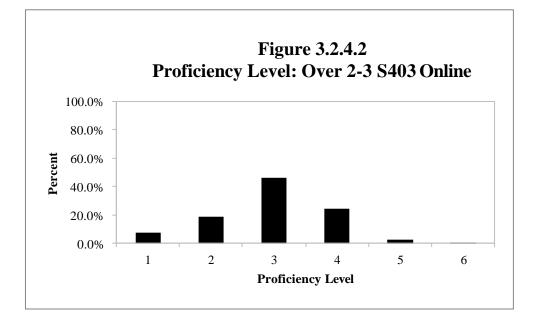


3-38

## 3.2.4.2 Grades 2–3

Proficiency Level Distribution: Over 2-3 S403 Online

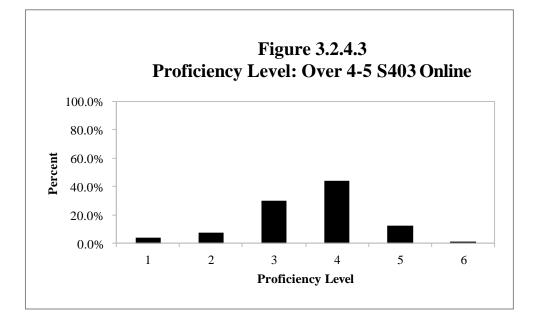
|       | Grade 2 |         | Gra     | de 3    | Total   |         |
|-------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 12,831  | 7.65%   | 12,735  | 7.51%   | 25,566  | 7.58%   |
| 2     | 37,285  | 22.23%  | 25,795  | 15.22%  | 63,080  | 18.71%  |
| 3     | 80,984  | 48.29%  | 75,922  | 44.80%  | 156,906 | 46.53%  |
| 4     | 33,045  | 19.70%  | 48,942  | 28.88%  | 81,987  | 24.31%  |
| 5     | 3,443   | 2.05%   | 5,954   | 3.51%   | 9,397   | 2.79%   |
| 6     | 132     | 0.08%   | 126     | 0.07%   | 258     | 0.08%   |
| Total | 167,720 | 100.00% | 169,474 | 100.00% | 337,194 | 100.00% |



## 3.2.4.3 Grades 4-5

Proficiency Level Distribution: Over 4-5 S403 Online

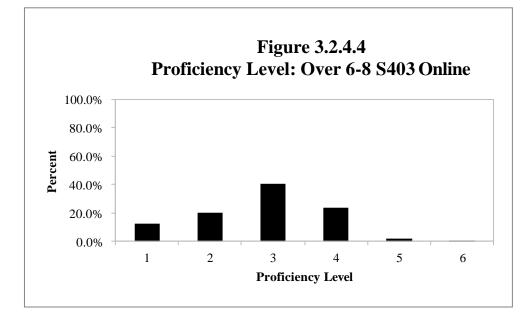
|       | Grade 4 |         | Gra     | de 5    | Total   |         |
|-------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 5,651   | 3.92%   | 6,049   | 5.12%   | 11,700  | 4.46%   |
| 2     | 9,959   | 6.90%   | 9,363   | 7.93%   | 19,322  | 7.37%   |
| 3     | 44,590  | 30.91%  | 34,192  | 28.96%  | 78,782  | 30.03%  |
| 4     | 64,411  | 44.65%  | 52,006  | 44.04%  | 116,417 | 44.38%  |
| 5     | 17,767  | 12.32%  | 15,087  | 12.78%  | 32,854  | 12.52%  |
| 6     | 1,880   | 1.30%   | 1,386   | 1.17%   | 3,266   | 1.24%   |
| Total | 144,258 | 100.00% | 118,083 | 100.00% | 262,341 | 100.00% |



## 3.2.4.4 Grades 6-8

Proficiency Level Distribution: Over 6-8 S403 Online

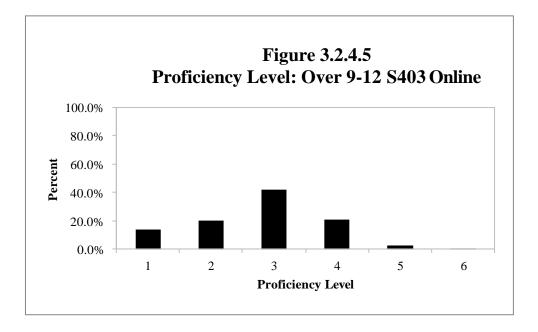
|       | Grade 6 |         | Grade 7 |         | Grade 8 |         | Total   |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| Level | Count   | Percent | Count   | Percent | Count   | Percent | Count   | Percent |
| 1     | 8,081   | 9.69%   | 9,910   | 13.25%  | 10,926  | 15.59%  | 28,917  | 12.67%  |
| 2     | 16,653  | 19.96%  | 15,734  | 21.04%  | 14,156  | 20.20%  | 46,543  | 20.39%  |
| 3     | 37,614  | 45.09%  | 29,784  | 39.83%  | 25,740  | 36.73%  | 93,138  | 40.80%  |
| 4     | 19,892  | 23.85%  | 17,643  | 23.59%  | 17,384  | 24.81%  | 54,919  | 24.06%  |
| 5     | 1,103   | 1.32%   | 1,621   | 2.17%   | 1,782   | 2.54%   | 4,506   | 1.97%   |
| 6     | 70      | 0.08%   | 94      | 0.13%   | 93      | 0.13%   | 257     | 0.11%   |
| Total | 83,413  | 100.00% | 74,786  | 100.00% | 70,081  | 100.00% | 228,280 | 100.00% |



## 3.2.4.5 Grades 9-12

|       | Gra    | nde 9   | Gra    | de 10   | Gra    | de 11   | Gra    | de 12   | To      | otal    |
|-------|--------|---------|--------|---------|--------|---------|--------|---------|---------|---------|
| Level | Count  | Percent | Count  | Percent | Count  | Percent | Count  | Percent | Count   | Percent |
| 1     | 12,074 | 15.08%  | 8,554  | 12.95%  | 7,584  | 13.08%  | 6,495  | 14.92%  | 34,707  | 14.02%  |
| 2     | 15,329 | 19.15%  | 12,867 | 19.48%  | 11,627 | 20.05%  | 10,037 | 23.06%  | 49,860  | 20.14%  |
| 3     | 33,203 | 41.48%  | 28,125 | 42.59%  | 24,379 | 42.04%  | 18,764 | 43.11%  | 104,471 | 42.19%  |
| 4     | 16,888 | 21.10%  | 14,626 | 22.15%  | 12,686 | 21.88%  | 7,498  | 17.23%  | 51,698  | 20.88%  |
| 5     | 2,452  | 3.06%   | 1,812  | 2.74%   | 1,670  | 2.88%   | 722    | 1.66%   | 6,656   | 2.69%   |
| 6     | 97     | 0.12%   | 54     | 0.08%   | 42     | 0.07%   | 7      | 0.02%   | 200     | 0.08%   |
| Total | 80,043 | 100.00% | 66,038 | 100.00% | 57,988 | 100.00% | 43,523 | 100.00% | 247,592 | 100.00% |

Proficiency Level Distribution: Over 9-12 S403 Online



## 3.3 Reliability

To estimate the score reliability of the composite scores, a stratified Cronbach's alpha coefficient (e.g., Rudner, 2001; Kamata, Turhan, & Darandari, 2003; Kane & Case, 2004) is computed, weighted by the contribution of each domain score into the composite. Specifically, the formula is

$$\alpha = 1 - \frac{\sum_{\substack{k \\ j=1 \\ \sigma_c}} w^2 \sigma^2 (1-\rho)}{\sigma_c^2}$$

where

k = number of components j  $w_j$  = weight of component j  $o_j^2$  = variance of component j  $\sigma_c^2$  = variance of composite  $\rho_j$  = reliability coefficient of component j

Tables are provided below to express the stratified Cronbach's alpha for each of the composites. The first table for each composite provides stratified Cronbach's alpha for all test takers. The second table for each composite provides the same information for the population of female students and the population of male students. The third table provides information by ethnicity, for Hispanic and non-Hispanic test takers, and the fourth table provides information for the population of students who have an individualized education plan (IEP).

Each table is divided by grade-level cluster. Tables first include the input values used to compute Cronbach's alpha. The table lists the number of components for each composite and their weight. (See also the beginning of this chapter for an overview of how the composites are computed.)

For the Listening and Reading domain components, the reliability coefficient is the Rasch separation reliability coefficient, provided in Section 2.10.

For Writing and Speaking domain components, which have multiple test forms for each gradelevel cluster, a single reliability coefficient for the grade-level cluster is derived. To produce this single value, values for Cronbach's alpha for each of the tiers in the grade-level cluster (provided in Section 2.10) are weighted by the number of students who were administered the tier form, and a weighted average is expressed in the tables.

For each relevant domain component, the variance of the scale score is also provided. The variance of the composite scale score is also provided. The variances of domains and composites are computed for students who had valid results in all four domains.

Finally, the computed stratified Cronbach's alpha value for the composite is provided, by gradelevel cluster.

The stratified Cronbach's alpha, presented in the tables in this section, was also used to produce the *Accuracy and Consistency* classification tables of the composites (Section 3.4).

## 3.3.1 Oral

## Table 3.3.1.1

Reliability of Composite: Oral S403 Online

| Cluster | Component | Weight | Variance | Reliability |
|---------|-----------|--------|----------|-------------|
|         | Listening | 0.50   | 2974.123 | 0.850       |
| 1       | Speaking  | 0.50   | 2712.492 | 0.832       |
|         | Oral      |        | 2109.764 | 0.893       |
|         | Listening | 0.50   | 3295.516 | 0.840       |
| 2-3     | Speaking  | 0.50   | 2285.756 | 0.791       |
|         | Oral      |        | 2152.724 | 0.883       |
|         | Listening | 0.50   | 2624.456 | 0.810       |
| 4-5     | Speaking  | 0.50   | 2311.342 | 0.816       |
|         | Oral      |        | 1929.018 | 0.880       |
|         | Listening | 0.50   | 2367.896 | 0.850       |
| 6-8     | Speaking  | 0.50   | 2942.663 | 0.820       |
|         | Oral      |        | 2095.367 | 0.895       |
|         | Listening | 0.50   | 2630.452 | 0.860       |
| 9-12    | Speaking  | 0.50   | 2980.093 | 0.844       |
|         | Oral      |        | 2167.276 | 0.904       |

## Table 3.3.1.2

Reliability of Composite: Oral S403 Online by Gender

|         |           |        | Fen      | nale        | Male     |             |  |
|---------|-----------|--------|----------|-------------|----------|-------------|--|
| Cluster | Component | Weight | Variance | Reliability | Variance | Reliability |  |
|         | Listening | 0.50   | 2827.260 | 0.840       | 3057.022 | 0.860       |  |
| 1       | Speaking  | 0.50   | 2664.132 | 0.834       | 2672.046 | 0.828       |  |
|         | Oral      |        | 2010.926 | 0.889       | 2134.236 | 0.896       |  |
|         | Listening | 0.50   | 3113.919 | 0.830       | 3427.582 | 0.840       |  |
| 2-3     | Speaking  | 0.50   | 2244.973 | 0.789       | 2245.847 | 0.788       |  |
|         | Oral      |        | 2052.442 | 0.878       | 2195.324 | 0.883       |  |
|         | Listening | 0.50   | 2452.009 | 0.800       | 2724.672 | 0.810       |  |
| 4-5     | Speaking  | 0.50   | 2247.115 | 0.814       | 2325.015 | 0.818       |  |
|         | Oral      |        | 1814.950 | 0.875       | 1984.829 | 0.881       |  |
|         | Listening | 0.50   | 2254.865 | 0.850       | 2427.926 | 0.860       |  |
| 6-8     | Speaking  | 0.50   | 2943.614 | 0.823       | 2895.799 | 0.818       |  |
|         | Oral      |        | 2048.234 | 0.895       | 2095.872 | 0.897       |  |
|         | Listening | 0.50   | 2530.143 | 0.860       | 2690.832 | 0.860       |  |
| 9-12    | Speaking  | 0.50   | 2901.633 | 0.837       | 3003.107 | 0.849       |  |
|         | Oral      |        | 2088.307 | 0.901       | 2201.447 | 0.906       |  |

|         |           |        | Hisp     | panic       | Ot       | her         |
|---------|-----------|--------|----------|-------------|----------|-------------|
| Cluster | Component | Weight | Variance | Reliability | Variance | Reliability |
|         | Listening | 0.50   | 2882.609 | 0.850       | 3006.747 | 0.850       |
| 1       | Speaking  | 0.50   | 2706.897 | 0.834       | 2580.631 | 0.823       |
|         | Oral      |        | 2066.285 | 0.893       | 2052.961 | 0.889       |
|         | Listening | 0.50   | 3217.327 | 0.840       | 3267.025 | 0.830       |
| 2-3     | Speaking  | 0.50   | 2296.300 | 0.796       | 2134.472 | 0.774       |
|         | Oral      |        | 2118.970 | 0.884       | 2063.091 | 0.874       |
|         | Listening | 0.50   | 2479.652 | 0.800       | 2548.110 | 0.800       |
| 4-5     | Speaking  | 0.50   | 2224.972 | 0.816       | 2160.747 | 0.808       |
|         | Oral      |        | 1813.545 | 0.875       | 1818.337 | 0.873       |
|         | Listening | 0.50   | 2228.071 | 0.850       | 2378.218 | 0.850       |
| 6-8     | Speaking  | 0.50   | 2876.977 | 0.822       | 2554.752 | 0.802       |
|         | Oral      |        | 1988.997 | 0.894       | 1922.695 | 0.888       |
|         | Listening | 0.50   | 2574.848 | 0.860       | 2606.657 | 0.860       |
| 9-12    | Speaking  | 0.50   | 3012.001 | 0.851       | 2565.447 | 0.813       |
|         | Oral      |        | 2135.088 | 0.905       | 1994.886 | 0.894       |

Reliability of Composite: Oral S403 Online by Ethnicity

Table 3.3.1.3

Reliability of Composite: Oral S403 Online by IEP status

| Cluster | Component | Weight | Variance | Reliability |
|---------|-----------|--------|----------|-------------|
|         | Listening | 0.50   | 3446.907 | 0.890       |
| 1       | Speaking  | 0.50   | 2981.567 | 0.832       |
|         | Oral      |        | 2423.299 | 0.909       |
|         | Listening | 0.50   | 3436.539 | 0.870       |
| 2-3     | Speaking  | 0.50   | 2604.046 | 0.794       |
|         | Oral      |        | 2372.396 | 0.896       |
|         | Listening | 0.50   | 2289.802 | 0.810       |
| 4-5     | Speaking  | 0.50   | 2063.239 | 0.815       |
|         | Oral      |        | 1596.003 | 0.872       |
|         | Listening | 0.50   | 1823.462 | 0.830       |
| 6-8     | Speaking  | 0.50   | 2544.711 | 0.817       |
|         | Oral      |        | 1596.423 | 0.878       |
|         | Listening | 0.50   | 2053.781 | 0.830       |
| 9-12    | Speaking  | 0.50   | 2822.043 | 0.860       |
|         | Oral      |        | 1752.972 | 0.894       |

# 3.3.2 Literacy

## Table 3.3.2.1

Reliability of Composite: Litr S403 Online

| Cluster | Component | Weight | Variance | Reliability |
|---------|-----------|--------|----------|-------------|
|         | Reading   | 0.50   | 1115.802 | 0.890       |
| 1       | Writing   | 0.50   | 1176.138 | 0.869       |
|         | Literacy  |        | 864.454  | 0.920       |
|         | Reading   | 0.50   | 1126.997 | 0.880       |
| 2-3     | Writing   | 0.50   | 1639.481 | 0.908       |
|         | Literacy  |        | 1133.555 | 0.937       |
|         | Reading   | 0.50   | 1143.278 | 0.890       |
| 4-5     | Writing   | 0.50   | 1741.556 | 0.914       |
|         | Literacy  |        | 1170.649 | 0.941       |
|         | Reading   | 0.50   | 1534.276 | 0.910       |
| 6-8     | Writing   | 0.50   | 1851.229 | 0.894       |
|         | Literacy  |        | 1486.355 | 0.944       |
|         | Reading   | 0.50   | 1424.066 | 0.910       |
| 9-12    | Writing   | 0.50   | 1774.853 | 0.903       |
|         | Literacy  |        | 1303.621 | 0.942       |

## Table 3.3.2.2

Reliability of Composite: Litr S403 Online by Gender

|         |           |        | Fen      | nale        | Male     |             |
|---------|-----------|--------|----------|-------------|----------|-------------|
| Cluster | Component | Weight | Variance | Reliability | Variance | Reliability |
|         | Reading   | 0.50   | 1110.842 | 0.890       | 1112.741 | 0.890       |
| 1       | Writing   | 0.50   | 1093.523 | 0.863       | 1210.066 | 0.871       |
|         | Literacy  |        | 842.268  | 0.919       | 864.615  | 0.919       |
|         | Reading   | 0.50   | 1103.924 | 0.880       | 1138.013 | 0.880       |
| 2-3     | Writing   | 0.50   | 1574.199 | 0.902       | 1627.394 | 0.909       |
|         | Literacy  |        | 1103.379 | 0.935       | 1127.416 | 0.937       |
|         | Reading   | 0.50   | 1076.266 | 0.880       | 1188.426 | 0.890       |
| 4-5     | Writing   | 0.50   | 1610.724 | 0.905       | 1778.977 | 0.917       |
|         | Literacy  |        | 1092.514 | 0.935       | 1202.119 | 0.942       |
|         | Reading   | 0.50   | 1461.439 | 0.910       | 1567.026 | 0.920       |
| 6-8     | Writing   | 0.50   | 1757.358 | 0.884       | 1851.998 | 0.898       |
|         | Literacy  |        | 1410.234 | 0.941       | 1500.519 | 0.948       |
|         | Reading   | 0.50   | 1380.662 | 0.910       | 1429.940 | 0.910       |
| 9-12    | Writing   | 0.50   | 1635.265 | 0.895       | 1806.132 | 0.905       |
|         | Literacy  |        | 1228.445 | 0.940       | 1312.387 | 0.943       |

|         |           |        | Hisp     | panic       | Other    |             |
|---------|-----------|--------|----------|-------------|----------|-------------|
| Cluster | Component | Weight | Variance | Reliability | Variance | Reliability |
|         | Reading   | 0.50   | 963.914  | 0.870       | 1292.193 | 0.900       |
| 1       | Writing   | 0.50   | 1127.099 | 0.869       | 1143.819 | 0.864       |
|         | Literacy  |        | 754.372  | 0.910       | 962.501  | 0.926       |
|         | Reading   | 0.50   | 1055.523 | 0.880       | 1209.920 | 0.880       |
| 2-3     | Writing   | 0.50   | 1650.264 | 0.908       | 1483.800 | 0.904       |
|         | Literacy  |        | 1100.444 | 0.937       | 1112.968 | 0.935       |
|         | Reading   | 0.50   | 1059.421 | 0.880       | 1265.346 | 0.890       |
| 4-5     | Writing   | 0.50   | 1688.381 | 0.913       | 1513.377 | 0.909       |
|         | Literacy  |        | 1106.833 | 0.938       | 1140.136 | 0.939       |
|         | Reading   | 0.50   | 1430.122 | 0.910       | 1657.833 | 0.920       |
| 6-8     | Writing   | 0.50   | 1800.056 | 0.894       | 1668.782 | 0.881       |
|         | Literacy  |        | 1414.232 | 0.944       | 1456.688 | 0.943       |
|         | Reading   | 0.50   | 1362.089 | 0.910       | 1430.754 | 0.910       |
| 9-12    | Writing   | 0.50   | 1752.592 | 0.902       | 1561.495 | 0.894       |
|         | Literacy  |        | 1259.401 | 0.941       | 1210.989 | 0.939       |

**Table 3.3.2.3**Reliability of Composite: Litr S403 Online by Ethnicity

Reliability of Composite: Litr S403 Online by IEP status

| Cluster | Component | Weight | Variance | Reliability |
|---------|-----------|--------|----------|-------------|
|         | Reading   | 0.50   | 846.560  | 0.850       |
| 1       | Writing   | 0.50   | 1492.207 | 0.882       |
|         | Literacy  |        | 783.304  | 0.903       |
|         | Reading   | 0.50   | 943.809  | 0.860       |
| 2-3     | Writing   | 0.50   | 1720.396 | 0.906       |
|         | Literacy  |        | 1041.603 | 0.930       |
|         | Reading   | 0.50   | 1001.307 | 0.870       |
| 4-5     | Writing   | 0.50   | 1566.409 | 0.909       |
|         | Literacy  |        | 1013.339 | 0.933       |
|         | Reading   | 0.50   | 1186.531 | 0.890       |
| 6-8     | Writing   | 0.50   | 1389.011 | 0.868       |
|         | Literacy  |        | 1095.603 | 0.928       |
|         | Reading   | 0.50   | 961.703  | 0.870       |
| 9-12    | Writing   | 0.50   | 1381.965 | 0.886       |
|         | Literacy  |        | 848.712  | 0.917       |

## 3.3.3 Comprehension

## Table 3.3.3.1

Reliability of Composite: Cphn S403 Online

| Cluster | Component    | Weight | Variance | Reliability |
|---------|--------------|--------|----------|-------------|
|         | Listening    | 0.30   | 2974.123 | 0.850       |
| 1       | Reading      | 0.70   | 1115.802 | 0.890       |
|         | Comprehensio | on     | 1117.960 | 0.910       |
|         | Listening    | 0.30   | 3295.516 | 0.840       |
| 2-3     | Reading      | 0.70   | 1126.997 | 0.880       |
|         | Comprehensio | on     | 1332.680 | 0.915       |
|         | Listening    | 0.30   | 2624.456 | 0.810       |
| 4-5     | Reading      | 0.70   | 1143.278 | 0.890       |
|         | Comprehensio | on     | 1277.643 | 0.917       |
|         | Listening    | 0.30   | 2367.896 | 0.850       |
| 6-8     | Reading      | 0.70   | 1534.276 | 0.910       |
|         | Comprehensio | on     | 1512.233 | 0.934       |
|         | Listening    | 0.30   | 2630.452 | 0.860       |
| 9-12    | Reading      | 0.70   | 1424.066 | 0.910       |
|         | Comprehensio | on     | 1495.504 | 0.936       |

## Table 3.3.3.2

Reliability of Composite: Cphn S403 Online by Gender

|         |              |        | Fen      | Female      |          | ale         |
|---------|--------------|--------|----------|-------------|----------|-------------|
| Cluster | Component    | Weight | Variance | Reliability | Variance | Reliability |
|         | Listening    | 0.30   | 2827.260 | 0.840       | 3057.022 | 0.860       |
| 1       | Reading      | 0.70   | 1110.842 | 0.890       | 1112.741 | 0.890       |
|         | Comprehensio | n      | 1097.243 | 0.908       | 1121.609 | 0.912       |
|         | Listening    | 0.30   | 3113.919 | 0.830       | 3427.582 | 0.840       |
| 2-3     | Reading      | 0.70   | 1103.924 | 0.880       | 1138.013 | 0.880       |
|         | Comprehensio | n      | 1289.639 | 0.913       | 1358.254 | 0.914       |
|         | Listening    | 0.30   | 2452.009 | 0.800       | 2724.672 | 0.810       |
| 4-5     | Reading      | 0.70   | 1076.266 | 0.880       | 1188.426 | 0.890       |
|         | Comprehensio | n      | 1197.539 | 0.910       | 1328.557 | 0.917       |
|         | Listening    | 0.30   | 2254.865 | 0.850       | 2427.926 | 0.860       |
| 6-8     | Reading      | 0.70   | 1461.439 | 0.910       | 1567.026 | 0.920       |
|         | Comprehensio | n      | 1448.671 | 0.934       | 1540.992 | 0.940       |
|         | Listening    | 0.30   | 2530.143 | 0.860       | 2690.832 | 0.860       |
| 9-12    | Reading      | 0.70   | 1380.662 | 0.910       | 1429.940 | 0.910       |
|         | Comprehensio | n      | 1450.367 | 0.936       | 1508.094 | 0.936       |

|         |              |        | Hisp     | Hispanic    |          | her         |
|---------|--------------|--------|----------|-------------|----------|-------------|
| Cluster | Component    | Weight | Variance | Reliability | Variance | Reliability |
|         | Listening    | 0.30   | 2882.609 | 0.850       | 3006.747 | 0.850       |
| 1       | Reading      | 0.70   | 963.914  | 0.870       | 1292.193 | 0.900       |
|         | Comprehensio | n      | 972.825  | 0.897       | 1289.474 | 0.919       |
|         | Listening    | 0.30   | 3217.327 | 0.840       | 3267.025 | 0.830       |
| 2-3     | Reading      | 0.70   | 1055.523 | 0.880       | 1209.920 | 0.880       |
|         | Comprehensio | n      | 1251.984 | 0.913       | 1409.042 | 0.914       |
|         | Listening    | 0.30   | 2479.652 | 0.800       | 2548.110 | 0.800       |
| 4-5     | Reading      | 0.70   | 1059.421 | 0.880       | 1265.346 | 0.890       |
|         | Comprehensio | n      | 1180.790 | 0.909       | 1361.030 | 0.916       |
|         | Listening    | 0.30   | 2228.071 | 0.850       | 2378.218 | 0.850       |
| 6-8     | Reading      | 0.70   | 1430.122 | 0.910       | 1657.833 | 0.920       |
|         | Comprehensio | n      | 1396.758 | 0.933       | 1614.473 | 0.940       |
|         | Listening    | 0.30   | 2574.848 | 0.860       | 2606.657 | 0.860       |
| 9-12    | Reading      | 0.70   | 1362.089 | 0.910       | 1430.754 | 0.910       |
|         | Comprehensio | n      | 1432.848 | 0.935       | 1499.543 | 0.936       |

Reliability of Composite: Cphn S403 Online by Ethnicity

Table 3.3.3.3

Reliability of Composite: Cphn S403 Online by IEP status

| Cluster | Component    | Weight | Variance | Reliability |
|---------|--------------|--------|----------|-------------|
|         | Listening    | 0.30   | 3446.907 | 0.890       |
| 1       | Reading      | 0.70   | 846.560  | 0.850       |
|         | Comprehensio | on     | 922.482  | 0.896       |
|         | Listening    | 0.30   | 3436.539 | 0.870       |
| 2-3     | Reading      | 0.70   | 943.809  | 0.860       |
|         | Comprehensio | on     | 1144.237 | 0.908       |
|         | Listening    | 0.30   | 2289.802 | 0.810       |
| 4-5     | Reading      | 0.70   | 1001.307 | 0.870       |
|         | Comprehensio | on     | 1048.379 | 0.902       |
|         | Listening    | 0.30   | 1823.462 | 0.830       |
| 6-8     | Reading      | 0.70   | 1186.531 | 0.890       |
|         | Comprehensio | on     | 1088.674 | 0.916       |
|         | Listening    | 0.30   | 2053.781 | 0.830       |
| 9-12    | Reading      | 0.70   | 961.703  | 0.870       |
|         | Comprehensio | on     | 983.063  | 0.906       |

## 3.3.4 Overall

Reliability of Composite: Over S403 Online

| Cluster | Component         | Weight            | Variance | Reliability |
|---------|-------------------|-------------------|----------|-------------|
|         | Listening         | 0.15              | 2974.123 | 0.850       |
|         | Reading           | 0.35              | 1115.802 | 0.890       |
| 1       | Speaking          | 0.15              | 2712.492 | 0.832       |
|         | Writing           | 0.35              | 1176.138 | 0.869       |
|         | Overall Comp      | osite             | 918.310  | 0.941       |
|         | Listening         | 0.15              | 3295.516 | 0.840       |
|         | Reading           | 0.35              | 1126.997 | 0.880       |
| 2-3     | Speaking          | 0.15              | 2285.756 | 0.791       |
|         | Writing           | 0.35              | 1639.481 | 0.908       |
|         | Overall Comp      | Overall Composite |          | 0.952       |
|         | Listening         | 0.15              | 2624.456 | 0.810       |
|         | Reading           | 0.35              | 1143.278 | 0.890       |
| 4-5     | Speaking          | 0.15              | 2311.342 | 0.816       |
|         | Writing           | Writing 0.35      |          | 0.914       |
|         | Overall Composite |                   | 1211.162 | 0.955       |
|         | Listening         | 0.15              | 2367.896 | 0.850       |
|         | Reading           | 0.35              | 1534.276 | 0.910       |
| 6-8     | Speaking          | 0.15              | 2942.663 | 0.820       |
|         | Writing           | 0.35              | 1851.229 | 0.894       |
|         | Overall Comp      | osite             | 1467.804 | 0.959       |
|         | Listening         | 0.15              | 2630.452 | 0.860       |
|         | Reading           | 0.35              | 1424.066 | 0.910       |
| 9-12    | Speaking          | 0.15              | 2980.093 | 0.844       |
|         | Writing           | 0.35              | 1774.853 | 0.903       |
|         | Overall Comp      | osite             | 1366.954 | 0.959       |

|         | Composite: O |        |          | nale        | Μ        | ale         |
|---------|--------------|--------|----------|-------------|----------|-------------|
| Cluster | Component    | Weight | Variance | Reliability | Variance | Reliability |
|         | Listening    | 0.15   | 2827.260 | 0.840       | 3057.022 | 0.860       |
| 1       | Reading      | 0.35   | 1110.842 | 0.890       | 1112.741 | 0.890       |
|         | Speaking     | 0.15   | 2664.132 | 0.834       | 2672.046 | 0.828       |
|         | Writing      | 0.35   | 1093.523 | 0.863       | 1210.066 | 0.871       |
|         | Overall Comp | osite  | 881.240  | 0.939       | 921.315  | 0.941       |
|         | Listening    | 0.15   | 3113.919 | 0.830       | 3427.582 | 0.840       |
|         | Reading      | 0.35   | 1103.924 | 0.880       | 1138.013 | 0.880       |
| 2-3     | Speaking     | 0.15   | 2244.973 | 0.789       | 2245.847 | 0.788       |
|         | Writing      | 0.35   | 1574.199 | 0.902       | 1627.394 | 0.909       |
|         | Overall Comp | osite  | 1167.193 | 0.951       | 1217.261 | 0.952       |
|         | Listening    | 0.15   | 2452.009 | 0.800       | 2724.672 | 0.810       |
|         | Reading      | 0.35   | 1076.266 | 0.880       | 1188.426 | 0.890       |
| 4-5     | Speaking     | 0.15   | 2247.115 | 0.814       | 2325.015 | 0.818       |
|         | Writing      | 0.35   | 1610.724 | 0.905       | 1778.977 | 0.917       |
|         | Overall Comp | osite  | 1128.342 | 0.951       | 1247.546 | 0.956       |
|         | Listening    | 0.15   | 2254.865 | 0.850       | 2427.926 | 0.860       |
|         | Reading      | 0.35   | 1461.439 | 0.910       | 1567.026 | 0.920       |
| 6-8     | Speaking     | 0.15   | 2943.614 | 0.823       | 2895.799 | 0.818       |
|         | Writing      | 0.35   | 1757.358 | 0.884       | 1851.998 | 0.898       |
|         | Overall Comp | osite  | 1412.417 | 0.957       | 1473.199 | 0.961       |
|         | Listening    | 0.15   | 2530.143 | 0.860       | 2690.832 | 0.860       |
|         | Reading      | 0.35   | 1380.662 | 0.910       | 1429.940 | 0.910       |
| 9-12    | Speaking     | 0.15   | 2901.633 | 0.837       | 3003.107 | 0.849       |
|         | Writing      | 0.35   | 1635.265 | 0.895       | 1806.132 | 0.905       |
|         | Overall Comp | osite  | 1300.070 | 0.958       | 1378.293 | 0.960       |

Reliability of Composite: Over S403 Online by Gender

|         |              |        | Hisp     | oanic       | Ot       | her         |
|---------|--------------|--------|----------|-------------|----------|-------------|
| Cluster | Component    | Weight | Variance | Reliability | Variance | Reliability |
|         | Listening    | 0.15   | 2882.609 | 0.850       | 3006.747 | 0.850       |
|         | Reading      | 0.35   | 963.914  | 0.870       | 1292.193 | 0.900       |
| 1       | Speaking     | 0.15   | 2706.897 | 0.834       | 2580.631 | 0.823       |
|         | Writing      | 0.35   | 1127.099 | 0.869       | 1143.819 | 0.864       |
|         | Overall Comp | osite  | 823.422  | 0.935       | 986.143  | 0.944       |
|         | Listening    | 0.15   | 3217.327 | 0.840       | 3267.025 | 0.830       |
|         | Reading      | 0.35   | 1055.523 | 0.880       | 1209.920 | 0.880       |
| 2-3     | Speaking     | 0.15   | 2296.300 | 0.796       | 2134.472 | 0.774       |
|         | Writing      | 0.35   | 1650.264 | 0.908       | 1483.800 | 0.904       |
|         | Overall Comp | osite  | 1176.243 | 0.952       | 1182.019 | 0.950       |
|         | Listening    | 0.15   | 2479.652 | 0.800       | 2548.110 | 0.800       |
|         | Reading      | 0.35   | 1059.421 | 0.880       | 1265.346 | 0.890       |
| 4-5     | Speaking     | 0.15   | 2224.972 | 0.816       | 2160.747 | 0.808       |
|         | Writing      | 0.35   | 1688.381 | 0.913       | 1513.377 | 0.909       |
|         | Overall Comp | osite  | 1134.210 | 0.953       | 1159.883 | 0.953       |
|         | Listening    | 0.15   | 2228.071 | 0.850       | 2378.218 | 0.850       |
|         | Reading      | 0.35   | 1430.122 | 0.910       | 1657.833 | 0.920       |
| 6-8     | Speaking     | 0.15   | 2876.977 | 0.822       | 2554.752 | 0.802       |
|         | Writing      | 0.35   | 1800.056 | 0.894       | 1668.782 | 0.881       |
|         | Overall Comp | osite  | 1383.269 | 0.958       | 1407.438 | 0.957       |
|         | Listening    | 0.15   | 2574.848 | 0.860       | 2606.657 | 0.860       |
|         | Reading      | 0.35   | 1362.089 | 0.910       | 1430.754 | 0.910       |
| 9-12    | Speaking     | 0.15   | 3012.001 | 0.851       | 2565.447 | 0.813       |
|         | Writing      | 0.35   | 1752.592 | 0.902       | 1561.495 | 0.894       |
|         | Overall Comp | osite  | 1321.560 | 0.959       | 1260.077 | 0.956       |

Reliability of Composite: Over S403 Online by Ethnicity

|         |                   | site: Over S403 Online by IEP status |          |             |  |  |  |
|---------|-------------------|--------------------------------------|----------|-------------|--|--|--|
| Cluster | Component         | Weight                               | Variance | Reliability |  |  |  |
|         | Listening         | 0.15                                 | 3446.907 | 0.890       |  |  |  |
|         | Reading           | 0.35                                 | 846.560  | 0.850       |  |  |  |
| 1       | Speaking          | 0.15                                 | 2981.567 | 0.832       |  |  |  |
|         | Writing           | 0.35                                 | 1492.207 | 0.882       |  |  |  |
|         | Overall Comp      | osite                                | 873.346  | 0.935       |  |  |  |
|         | Listening         | 0.15                                 | 3436.539 | 0.870       |  |  |  |
|         | Reading           | 0.35                                 | 943.809  | 0.860       |  |  |  |
| 2-3     | Speaking          | 0.15                                 | 2604.046 | 0.794       |  |  |  |
|         | Writing           | 0.35                                 | 1720.396 | 0.906       |  |  |  |
|         | Overall Composite |                                      | 1148.034 | 0.949       |  |  |  |
|         | Listening         | 0.15                                 | 2289.802 | 0.810       |  |  |  |
|         | Reading           | 0.35                                 | 1001.307 | 0.870       |  |  |  |
| 4-5     | Speaking          | 0.15 2063                            |          | 0.815       |  |  |  |
|         | Writing           | Writing 0.35                         |          | 0.909       |  |  |  |
|         | Overall Comp      | osite                                | 975.019  | 0.947       |  |  |  |
|         | Listening         | 0.15                                 | 1823.462 | 0.830       |  |  |  |
|         | Reading           | 0.35                                 | 1186.531 | 0.890       |  |  |  |
| 6-8     | Speaking          | 0.15                                 | 2544.711 | 0.817       |  |  |  |
|         | Writing           | 0.35                                 | 1389.011 | 0.868       |  |  |  |
|         | Overall Comp      | osite                                | 1011.906 | 0.945       |  |  |  |
|         | Listening         | 0.15                                 | 2053.781 | 0.830       |  |  |  |
|         | Reading           | 0.35                                 | 961.703  | 0.870       |  |  |  |
| 9-12    | Speaking          | 0.15                                 | 2822.043 | 0.860       |  |  |  |
|         | Writing           | 0.35                                 | 1381.965 | 0.886       |  |  |  |
|         | Overall Comp      | oosite                               | 884.234  | 0.942       |  |  |  |

Reliability of Composite: Over S403 Online by IEP status

# 3.4 Accuracy and Consistency of Composites

Tables below present three sections of information related to the accuracy and consistency of placement into the WIDA language proficiency levels for each composite score. The first section provides overall indices related to the accuracy and consistency of classification, as well as Cohen's kappa. The second section shows accuracy and consistency information conditional per proficiency level. The third section provides indices of classification accuracy, including the false-positives and false-negatives, and consistency at the cut points. These indices are perhaps the most important of all when using any of these as an absolute cut point (e.g., determining which students have reached PL 5). Note that the consistency is generally higher at the cut points than for the proficiency levels. For practical purposes, the primary score used for such decisions is the overall composite score.

As noted above in Section 2.13, there may be cases where the number of test takers placed into the proficiency level is fewer than 200 and accuracy and consistency of classification conditional on that level either cannot be computed or the software produces estimates that are out of bounds. In these cases, 'N/A' has been placed in the table. In addition, there may be cases where due to the small percentage of test takers placed into the proficiency level and the range of observed scale scores, accuracy of classification conditional on that level cannot be estimated by the software program that is used. In such cases, a hyphen (-) has been placed in the table.

## 3.4.1 Oral

## Table 3.4.1.1

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj       | ppa (k)     |  |
|-------------------|-------------|----------|-----------|-----------|-------------|--|
|                   | 0.669       | 0.560    |           | 0.424     |             |  |
| Conditional on    | Level       | Accu     | iracy     | Cons      | sistency    |  |
| Level             | 1           | 0.8      | 380       | 0         | .790        |  |
|                   | 2           | 0.6      | 508       | 0         | .476        |  |
|                   | 3           | 0.7      | '53       | 0         | .648        |  |
|                   | 4           | 0.5      | 99        | 0.503     |             |  |
|                   | 5           | 0.5      | 581       | 0         | 0.462       |  |
|                   | 6           |          | -         |           | -           |  |
| Indices at        | Proficiency |          | Accuracy  |           |             |  |
| Proficiency Level | Level Cut   |          | False     | False     |             |  |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |  |
|                   | 1/2         | 0.970    | 0.010     | 0.020     | 0.958       |  |
|                   | 2/3         | 0.937    | 0.033     | 0.030     | 0.908       |  |
|                   | 3/4         | 0.884    | 0.046     | 0.069     | 0.839       |  |
|                   | 4/5         | 0.889    | 0.063     | 0.048     | 0.847       |  |
|                   | 5/6         | 0.985    | 0.015     | 0.000     | 0.982       |  |

Accuracy and Consistency of Classification Indices: Oral (Grade 1) S403 Online

Table 3.4.1.2

| Overall Indices   | Accuracy    | Consistency |             | Kappa (k) |             |
|-------------------|-------------|-------------|-------------|-----------|-------------|
|                   | 0.688       | 0.5         | 582         | 0         | .435        |
| Conditional on    | Level       | Accu        | iracy       | Cons      | sistency    |
| Level             | 1           | 0.8         | 341         | 0         | .736        |
|                   | 2           | 0.7         | /12         | 0         | .594        |
|                   | 3           | 0.7         | 27          | 0         | .621        |
|                   | 4           | 0.5         | 590         | 0.521     |             |
|                   | 5           | -           |             | -         |             |
|                   | 6           | -           | -           |           | -           |
| Indices at        | Proficiency |             | Accuracy    |           |             |
| Proficiency Level | Level Cut   |             | False       | False     |             |
| Cut Points        | Point       | Accuracy    | Positives   | Negatives | Consistency |
|                   | 1/2         | 0.964       | 0.015       | 0.021     | 0.948       |
|                   | 2/3         | 0.913       | 0.040       | 0.048     | 0.876       |
|                   | 3/4         | 0.872       | 0.051       | 0.077     | 0.820       |
|                   |             |             | 0.041       | 0.000     | 0.010       |
|                   | 4/5         | 0.939       | 0.939 0.061 |           | 0.919       |

Accuracy and Consistency of Classification Indices: Oral (Grade 2) S403 Online

Accuracy and Consistency of Classification Indices: Oral (Grade 3) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kappa (k) |             |
|--------------------------|-------------|----------|-----------|-----------|-------------|
|                          | 0.686       | 0.579    |           | 0.415     |             |
| Conditional on           | Level       | Accu     | iracy     | Cons      | sistency    |
| Level                    | 1           | 0.8      | 346       | 0         | .749        |
|                          | 2           | 0.7      | /04       | 0         | .575        |
|                          | 3           | 0.7      | /14       | 0         | .581        |
|                          | 4           | 0.6      | 525       | 0         | .569        |
|                          | 5           |          | -         | -         |             |
|                          | 6           | N        | /A        | 1         | N/A         |
| Indices at               | Proficiency |          | Accuracy  |           |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False     |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives | Consistency |
|                          | 1/2         | 0.970    | 0.014     | 0.016     | 0.957       |
|                          | 2/3         | 0.926    | 0.032     | 0.042     | 0.895       |
|                          | 3/4         | 0.840    | 0.051     | 0.109     | 0.777       |
|                          | 4/5         | 0.949    | 0.051     | 0.000     | 0.930       |
|                          | 5/6         | N/A      | N/A       | N/A       | N/A         |

Table 3.4.1.4

| Overall Indices   | Accuracy    | Consistency |           | Kaj         | ppa (k)     |
|-------------------|-------------|-------------|-----------|-------------|-------------|
|                   | 0.665       | 0.556       |           | 0.390       |             |
| Conditional on    | Level       | Accuracy    |           | Consistency |             |
| Level             | 1           | 0.9         | 0.900     |             | .812        |
|                   | 2           | 0.5         | 570       | 0           | .425        |
|                   | 3           | 0.7         | '30       | 0           | .601        |
|                   | 4           | 0.7         | '16       | 0.595       |             |
|                   | 5           | 0.5         | 90        | 0.530       |             |
|                   | 6           | -           | -         |             | -           |
| Indices at        | Proficiency |             | Accuracy  |             |             |
| Proficiency Level | Level Cut   |             | False     | False       |             |
| Cut Points        | Point       | Accuracy    | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.989       | 0.003     | 0.008       | 0.986       |
|                   |             | 0.070       | 0.017     | 0.012       | 0.959       |
|                   | 2/3         | 0.973       | 0.015     | 0.012       | 0.939       |
|                   | 2/3<br>3/4  | 0.973       | 0.015     | 0.012       | 0.939       |
|                   |             |             |           |             |             |

Accuracy and Consistency of Classification Indices: Oral (Grade 4) S403 Online

Accuracy and Consistency of Classification Indices: Oral (Grade 5) S403 Online

| Overall Indices          | Accuracy    | Consi       | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|-------------|-----------|-------------|-------------|
|                          | 0.638       | 0.531       |           | 0.357       |             |
| Conditional on           | Level       | Accuracy    |           | Consistency |             |
| Level                    | 1           | 0.893 0.804 |           | .804        |             |
|                          | 2           | 0.5         | 544       | 0           | .400        |
|                          | 3           | 0.7         | '30       | 0           | .599        |
|                          | 4           | 0.6         | 589       | 0           | .568        |
|                          | 5           | 0.5         | 530       | 0           | .467        |
|                          | 6           |             | -         |             | -           |
| Indices at               | Proficiency |             | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |             | False     | False       |             |
| Cut Points               | Point       | Accuracy    | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.986       | 0.004     | 0.009       | 0.981       |
|                          | 2/3         | 0.966       | 0.019     | 0.014       | 0.949       |
|                          | 3/4         | 0.911       | 0.033     | 0.056       | 0.877       |
|                          | 4/5         | 0.825       | 0.058     | 0.117       | 0.761       |
|                          | 5/6         | 0.945       | 0.055     | 0.000       | 0.929       |

Table 3.4.1.6

| Overall Indices   | Accuracy    | Consistency    |                | Kaj            | ppa (k)        |
|-------------------|-------------|----------------|----------------|----------------|----------------|
|                   | 0.725       | 0.630          |                | 0.468          |                |
| Conditional on    | Level       | Accuracy       |                | Consistency    |                |
| Level             | 1           | 0.8            | 0.863          |                | .775           |
|                   | 2           | 0.6            | 543            | 0              | .506           |
|                   | 3           | 0.8            | 806            | 0              | .714           |
|                   | 4           | 0.6            | 573            | 0.631          |                |
|                   | 5           | -              |                | -              |                |
|                   | 6           | -              | -              | -              |                |
| Indices at        | Proficiency |                | Accuracy       |                |                |
| Proficiency Level | Level Cut   |                | False          | False          |                |
| Cut Points        | Point       | Accuracy       | Positives      | Negatives      | Consistency    |
|                   | 1/2         | 0.981          | 0.007          | 0.012          | 0.973          |
|                   | -           |                |                |                |                |
|                   | 2/3         | 0.945          | 0.030          | 0.025          | 0.921          |
|                   | 2/3<br>3/4  | 0.945<br>0.881 | 0.030<br>0.043 | 0.025<br>0.076 | 0.921<br>0.836 |
|                   |             |                |                |                |                |

Accuracy and Consistency of Classification Indices: Oral (Grade 6) S403 Online

Accuracy and Consistency of Classification Indices: Oral (Grade 7) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.703       | 0.599    |           | 0.449       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.860    |           | 0           | .761        |
|                   | 2           | 0.6      | 522       | 0           | .489        |
|                   | 3           | 0.7      | 69        | 0           | .672        |
|                   | 4           | 0.6      | 59        | 0           | .598        |
|                   | 5           | 0.4      | 66        | 0.316       |             |
|                   | 6           | -        | -         |             | -           |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.971    | 0.011     | 0.018       | 0.958       |
|                   | 2/3         | 0.930    | 0.036     | 0.033       | 0.900       |
|                   | 3/4         | 0.881    | 0.046     | 0.073       | 0.835       |
|                   | 4/5         | 0.924    | 0.068     | 0.008       | 0.902       |
|                   | 5/6         | 0.988    | 0.012     | 0.000       | 0.988       |

Table 3.4.1.8

| Overall Indices   | Accuracy    | Consistency |           | Kaj         | ppa (k)     |
|-------------------|-------------|-------------|-----------|-------------|-------------|
|                   | 0.686       | 0.580       |           | 0.435       |             |
| Conditional on    | Level       | Accuracy    |           | Consistency |             |
| Level             | 1           | 0.8         | 0.854     |             | .758        |
|                   | 2           | 0.6         | 522       | 0           | .490        |
|                   | 3           | 0.7         | '35       | 0           | .627        |
|                   | 4           | 0.6         | 533       | 0.582       |             |
|                   | 5           | -           |           | -           |             |
|                   | 6           | -           | -         | -           |             |
| Indices at        | Proficiency |             | Accuracy  |             |             |
| Proficiency Level | Level Cut   |             | False     | False       |             |
| Cut Points        | Point       | Accuracy    | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.964       | 0.016     | 0.020       | 0.948       |
|                   | 2/3         | 0.924       | 0.037     | 0.039       | 0.892       |
|                   | 3/4         | 0.881       | 0.045     | 0.074       | 0.834       |
|                   | 4/5         | 0.917       | 0.083     | 0.000       | 0.895       |
|                   | 5/6         | 0.988       | 0.012     | 0.000       | 0.987       |

Accuracy and Consistency of Classification Indices: Oral (Grade 8) S403 Online

Accuracy and Consistency of Classification Indices: Oral (Grade 9) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.743       | 0.647    |           | 0.520       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.864    |           | 0           | .779        |
|                          | 2           | 0.6      | 582       | 0           | .572        |
|                          | 3           | 0.7      | 71        | 0           | .690        |
|                          | 4           | 0.6      | 572       | 0           | .579        |
|                          | 5           | 0.5      | 52        | 0           | .310        |
|                          | 6           |          | -         |             | -           |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.947    | 0.022     | 0.031       | 0.925       |
|                          | 2/3         | 0.907    | 0.048     | 0.046       | 0.869       |
|                          | 3/4         | 0.915    | 0.042     | 0.043       | 0.879       |
|                          | 4/5         | 0.975    | 0.025     | 0.000       | 0.969       |
|                          | 5/6         | 0.997    | 0.003     | 0.000       | 0.997       |

Table 3.4.1.10

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.741       | 0.645    |           | 0.515       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.8      | 0.859     |             | .774        |
|                   | 2           | 0.6      | 552       | 0           | .536        |
|                   | 3           | 0.7      | 783       | 0           | .706        |
|                   | 4           | 0.6      | 561       | 0.566       |             |
|                   | 5           | 0.5      | 545       | 0.325       |             |
|                   | 6           | -        | -         | -           |             |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.945    | 0.024     | 0.032       | 0.921       |
|                   | 2/3         | 0.906    | 0.048     | 0.046       | 0.868       |
|                   | 3/4         | 0.916    | 0.042     | 0.043       | 0.880       |
|                   | 4/5         | 0.974    | 0.026     | 0.000       | 0.969       |
|                   | 4/3         | 0.271    | 0.010     |             |             |

Accuracy and Consistency of Classification Indices: Oral (Grade 10) S403 Online

Accuracy and Consistency of Classification Indices: Oral (Grade 11) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.736       | 0.640    |           | 0.508       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.856    |           | 0           | .771        |
|                          | 2           | 0.6      | 542       | 0           | .524        |
|                          | 3           | 0.7      | 75        | 0           | .697        |
|                          | 4           | 0.6      | 51        | 0.554       |             |
|                          | 5           | -        |           |             | -           |
|                          | 6           | N        | Ά/A       | ١           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.942    | 0.026     | 0.032       | 0.916       |
|                          | 2/3         | 0.905    | 0.047     | 0.048       | 0.866       |
|                          | 3/4         | 0.915    | 0.042     | 0.043       | 0.878       |
|                          | 4/5         | 0.975    | 0.026     | 0.000       | 0.969       |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 3.4.1.12

| Overall Indices   | Accuracy    | Consi          | stency         | Kaj         | ppa (k)        |
|-------------------|-------------|----------------|----------------|-------------|----------------|
|                   | 0.744       | 0.650          |                | 0.512       |                |
| Conditional on    | Level       | Accuracy       |                | Consistency |                |
| Level             | 1           | 0.864          |                | 0           | .784           |
|                   | 2           | 0.6            | 525            | 0           | .505           |
|                   | 3           | 0.7            | '88            | 0           | .715           |
|                   | 4           | 0.6            | 533            | 0.519       |                |
|                   | 5           | -              |                | -           |                |
|                   | 6           | N              | 'A             | N/A         |                |
| Indices at        | Proficiency |                | Accuracy       |             |                |
| Proficiency Level | Level Cut   |                | False          | False       |                |
| Cut Points        | Point       | Accuracy       | Positives      | Negatives   | Consistency    |
|                   |             | Accuracy       | 1 USILIVES     | reguires    | consistency    |
|                   | 1/2         | 0.939          | 0.028          | 0.033       | 0.913          |
|                   |             | •              |                | 0           |                |
|                   | 1/2         | 0.939          | 0.028          | 0.033       | 0.913          |
|                   | 1/2<br>2/3  | 0.939<br>0.904 | 0.028<br>0.048 | 0.033       | 0.913<br>0.864 |

Accuracy and Consistency of Classification Indices: Oral (Grade 12) S403 Online

# 3.4.2 Literacy

## Table 3.4.2.1

Accuracy and Consistency of Classification Indices: Litr (Grade 1) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.810       | 0.731    |           | 0.605       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.796    |           | 0           | .694        |
|                   | 2           | 0.8      | 337       | 0           | .777        |
|                   | 3           | 0.7      | 786       | 0           | .709        |
|                   | 4           | 0.7      | /83       | 0           | .671        |
|                   | 5           | 0.8      | 353       | 0           | .685        |
|                   | 6           | N        | /A        | 1           | N/A         |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.931    | 0.037     | 0.032       | 0.900       |
|                   | 2/3         | 0.912    | 0.039     | 0.049       | 0.875       |
|                   | 3/4         | 0.973    | 0.019     | 0.008       | 0.963       |
|                   | 4/5         | 0.994    | 0.005     | 0.001       | 0.993       |
|                   | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 3.4.2.2

| Overall Indices   | Accuracy    | Consi       | Consistency |             | ppa (k)     |
|-------------------|-------------|-------------|-------------|-------------|-------------|
|                   | 0.823       | 0.755       |             | 0.631       |             |
| Conditional on    | Level       | Accuracy    |             | Consistency |             |
| Level             | 1           | 0.8         | 0.829       |             | .742        |
|                   | 2           | 0.7         | '94         | 0           | .705        |
|                   | 3           | 0.8         | 865         | 0           | .822        |
|                   | 4           | 0.7         | 47          | 0.667       |             |
|                   | 5           | 0.710       |             | 0.493       |             |
|                   | 6           |             | -           | -           |             |
| Indices at        | Proficiency |             | Accuracy    |             |             |
| Proficiency Level | Level Cut   |             | False       | False       |             |
| Cut Points        | Point       | Accuracy    | Positives   | Negatives   | Consistency |
|                   | 1/2         | 0.973       | 0.013       | 0.014       | 0.963       |
|                   | 2/3         | 0.933       | 0.032       | 0.036       | 0.907       |
|                   | 2/4         | 0.934 0.034 |             | 0.032       | 0.908       |
|                   | 3/4         |             |             |             |             |
|                   | 4/5         | 0.934       | 0.018       | 0.001       | 0.978       |

Accuracy and Consistency of Classification Indices: Litr (Grade 2) S403 Online

Accuracy and Consistency of Classification Indices: Litr (Grade 3) S403 Online

| Overall Indices   | Accuracy    | Consi      | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|------------|-----------|-------------|-------------|
|                   | 0.802       | 0.724      |           | 0.604       |             |
| Conditional on    | Level       | Accuracy   |           | Consistency |             |
| Level             | 1           | 0.864 0.78 |           | .781        |             |
|                   | 2           | 0.7        | '54       | 0           | .651        |
|                   | 3           | 0.8        | 348       | 0           | .793        |
|                   | 4           | 0.7        | 69        | 0           | .695        |
|                   | 5           | 0.6        | 506       | 0           | .451        |
|                   | 6           | -          | -         |             | -           |
| Indices at        | Proficiency |            | Accuracy  |             |             |
| Proficiency Level | Level Cut   |            | False     | False       |             |
| Cut Points        | Point       | Accuracy   | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.977      | 0.009     | 0.013       | 0.968       |
|                   | 2/3         | 0.946      | 0.026     | 0.029       | 0.923       |
|                   | 3/4         | 0.919      | 0.040     | 0.041       | 0.886       |
|                   | 4/5         | 0.964      | 0.027     | 0.010       | 0.950       |
|                   | 5/6         | 0.994      | 0.006     | 0.000       | 0.994       |

Table 3.4.2.4

| Overall Indices   | Accuracy    | Consi          | stency    | Kappa (k) |             |
|-------------------|-------------|----------------|-----------|-----------|-------------|
|                   | 0.786       | 0.712          |           | 0.582     |             |
| Conditional on    | Level       | Accu           | iracy     | Cons      | sistency    |
| Level             | 1           | 0.8            | 353       | 0         | .793        |
|                   | 2           | 0.7            | 07        | 0         | .584        |
|                   | 3           | 0.8            | 358       | 0         | .797        |
|                   | 4           | 0.7            | /65       | 0.715     |             |
|                   | 5           | 0.543          |           | 0.410     |             |
|                   | 6           |                | -         | -         |             |
| Indices at        | Proficiency |                | Accuracy  |           |             |
| Proficiency Level | Level Cut   |                | False     | False     |             |
| Cut Points        | Point       | Accuracy       | Positives | Negatives | Consistency |
|                   | 1 /0        |                |           | 0.000     | 0.070       |
|                   | 1/2         | 0.983          | 0.008     | 0.009     | 0.978       |
|                   | 2/3         | 0.983<br>0.963 | 0.008     | 0.009     | 0.978       |
|                   |             |                |           |           |             |
|                   | 2/3         | 0.963          | 0.018     | 0.019     | 0.949       |

Accuracy and Consistency of Classification Indices: Litr (Grade 4) S403 Online

Accuracy and Consistency of Classification Indices: Litr (Grade 5) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kappa (k) |             |
|-------------------|-------------|----------|-----------|-----------|-------------|
|                   | 0.771       | 0.6      | 92        | 0.563     |             |
| Conditional on    | Level       | Accu     | iracy     | Cons      | sistency    |
| Level             | 1           | 0.8      | 579       | 0         | .814        |
|                   | 2           | 0.7      | '15       | 0         | .596        |
|                   | 3           | 0.8      | 44        | 0         | .775        |
|                   | 4           | 0.7      | 54        | 0         | .701        |
|                   | 5           | 0.5      | 14        | 0         | .393        |
|                   | 6           | -        |           |           | -           |
| Indices at        | Proficiency |          | Accuracy  |           |             |
| Proficiency Level | Level Cut   |          | False     | False     |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |
|                   | 1/2         | 0.983    | 0.008     | 0.010     | 0.976       |
|                   | 2/3         | 0.963    | 0.018     | 0.019     | 0.948       |
|                   | 3/4         | 0.921    | 0.034     | 0.046     | 0.889       |
|                   | 4/5         | 0.912    | 0.062     | 0.026     | 0.885       |
|                   | 5/6         | 0.987    | 0.013     | 0.000     | 0.987       |

Table 3.4.2.6

| <b>Overall Indices</b> | Accuracy    | Consistency    |             | Kaj       | ppa (k)        |
|------------------------|-------------|----------------|-------------|-----------|----------------|
|                        | 0.821       | 0.750          |             | 0.643     |                |
| Conditional on         | Level       | Accu           | iracy       | Cons      | sistency       |
| Level                  | 1           | 0.9            | 018         | 0         | .868           |
|                        | 2           | 0.7            | 29          | 0         | .627           |
|                        | 3           | 0.8            | 863         | 0         | .811           |
|                        | 4           | 0.7            | '32         | 0.646     |                |
|                        | 5           | -              |             | -         |                |
|                        | 6           | N/             | Ά/A         | N/A       |                |
| Indices at             | Proficiency |                | Accuracy    |           |                |
| Proficiency Level      | Level Cut   |                | False       | False     |                |
| Cut Points             | Point       | Accuracy       | Positives   | Negatives | Consistency    |
|                        |             |                |             | U         | -              |
|                        | 1/2         | 0.964          | 0.014       | 0.022     | 0.950          |
|                        | 1/2<br>2/3  | -              | 0.014 0.031 | 0.022     | 0.950<br>0.916 |
|                        |             | 0.964          |             |           |                |
|                        | 2/3         | 0.964<br>0.941 | 0.031       | 0.028     | 0.916          |

Accuracy and Consistency of Classification Indices: Litr (Grade 6) S403 Online

Accuracy and Consistency of Classification Indices: Litr (Grade 7) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kappa (k) |             |
|--------------------------|-------------|----------|-----------|-----------|-------------|
|                          | 0.810       | 0.7      | /34       | 0.634     |             |
| Conditional on           | Level       | Accu     | iracy     | Cons      | sistency    |
| Level                    | 1           | 0.9      | 004       | 0         | .849        |
|                          | 2           | 0.7      | /40       | 0         | .643        |
|                          | 3           | 0.8      | 338       | 0         | .778        |
|                          | 4           | 0.7      | 45        | 0         | .668        |
|                          | 5           |          | -         | -         |             |
|                          | 6           | N        | /A        | 1         | N/A         |
| Indices at               | Proficiency |          | Accuracy  |           |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False     |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives | Consistency |
|                          | 1/2         | 0.958    | 0.017     | 0.024     | 0.941       |
|                          | 2/3         | 0.936    | 0.032     | 0.032     | 0.909       |
|                          | 3/4         | 0.933    | 0.033     | 0.034     | 0.905       |
|                          | 4/5         | 0.983    | 0.017     | 0.000     | 0.977       |
|                          | 5/6         | N/A      | N/A       | N/A       | N/A         |

Table 3.4.2.8

| <b>Overall Indices</b> | Accuracy    | Consistency |           | Kaj       | ppa (k)     |
|------------------------|-------------|-------------|-----------|-----------|-------------|
|                        | 0.800       | 0.7         | 0.720     |           | .622        |
| Conditional on         | Level       | Accu        | iracy     | Cons      | sistency    |
| Level                  | 1           | 0.9         | 011       | 0         | .860        |
|                        | 2           | 0.7         | '33       | 0         | .631        |
|                        | 3           | 0.8         | 315       | 0         | .744        |
|                        | 4           | 0.7         | '39       | 0.669     |             |
|                        | 5           | -           |           | -         |             |
|                        | 6           | N/          | Ά/A       | N/A       |             |
| Indices at             | Proficiency |             | Accuracy  |           |             |
| Proficiency Level      | Level Cut   |             | False     | False     |             |
| Cut Points             | Point       | Accuracy    | Positives | Negatives | Consistency |
|                        | 1/2         | 0.958       | 0.018     | 0.024     | 0.941       |
|                        | 2/3         | 0.937       | 0.031     | 0.032     | 0.911       |
|                        | 3/4         | 0.927       | 0.036     | 0.038     | 0.897       |
|                        |             |             |           |           |             |
|                        | 4/5         | 0.978       | 0.022     | 0.000     | 0.970       |

Accuracy and Consistency of Classification Indices: Litr (Grade 8) S403 Online

Accuracy and Consistency of Classification Indices: Litr (Grade 9) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kappa (k)   |             |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.796       | 0.7      | '14       | 0.617       |             |
| Conditional on           | Level       | Accu     | iracy     | Consistency |             |
| Level                    | 1           | 0.9      | 003       | 0           | .840        |
|                          | 2           | 0.7      | 25        | 0           | .626        |
|                          | 3           | 0.8      | 324       | 0           | .759        |
|                          | 4           | 0.7      | 76        | 0           | .693        |
|                          | 5           | 0.6      | 573       | 0           | .518        |
|                          | 6           | -        | -         |             | -           |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.963    | 0.013     | 0.023       | 0.949       |
|                          | 2/3         | 0.939    | 0.031     | 0.030       | 0.914       |
|                          | 3/4         | 0.929    | 0.037     | 0.034       | 0.900       |
|                          | 4/5         | 0.968    | 0.020     | 0.012       | 0.954       |
|                          | 5/6         | 0.997    | 0.003     | 0.000       | 0.997       |

Table 3.4.2.10

| Overall Indices   | Accuracy    | Consistency |           | Kaj       | ppa (k)     |  |
|-------------------|-------------|-------------|-----------|-----------|-------------|--|
|                   | 0.808       | 0.7         | 0.729     |           | 0.629       |  |
| Conditional on    | Level       | Accu        | iracy     | Cons      | sistency    |  |
| Level             | 1           | 0.8         | 382       | 0         | .803        |  |
|                   | 2           | 0.7         | /63       | 0         | .671        |  |
|                   | 3           | 0.8         | 327       | 0         | .767        |  |
|                   | 4           | 0.7         | '96       | 0.718     |             |  |
|                   | 5           | 0.753       |           | 0.592     |             |  |
|                   | 6           | N/          | Ά/A       | N/A       |             |  |
| Indices at        | Proficiency |             | Accuracy  |           |             |  |
| Proficiency Level | Level Cut   |             | False     | False     |             |  |
| Cut Points        | Point       | Accuracy    | Positives | Negatives | Consistency |  |
|                   | 1/2         | 0.969       | 0.012     | 0.019     | 0.957       |  |
|                   | 2/3         | 0.940       | 0.029     | 0.031     | 0.915       |  |
|                   | 3/4         | 0.929       | 0.039     | 0.033     | 0.900       |  |
|                   | 4/5         | 0.970       | 0.018     | 0.011     | 0.957       |  |
|                   |             |             |           |           |             |  |

Accuracy and Consistency of Classification Indices: Litr (Grade 10) S403 Online

Accuracy and Consistency of Classification Indices: Litr (Grade 11) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj       | ppa (k)     |
|-------------------|-------------|----------|-----------|-----------|-------------|
|                   | 0.806       | 0.7      | 27        | 0.627     |             |
| Conditional on    | Level       | Accu     | iracy     | Cons      | sistency    |
| Level             | 1           | 0.8      | 373       | 0         | .790        |
|                   | 2           | 0.7      | 70        | 0         | .680        |
|                   | 3           | 0.8      | 320       | 0         | .758        |
|                   | 4           | 0.7      | '99       | 0         | .721        |
|                   | 5           | 0.7      | 62        | 0         | .603        |
|                   | 6           | N        | /A        | ľ         | N/A         |
| Indices at        | Proficiency |          | Accuracy  |           |             |
| Proficiency Level | Level Cut   |          | False     | False     |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives | Consistency |
|                   | 1/2         | 0.969    | 0.012     | 0.019     | 0.956       |
|                   | 2/3         | 0.938    | 0.029     | 0.033     | 0.913       |
|                   | 3/4         | 0.929    | 0.039     | 0.032     | 0.900       |
|                   | 4/5         | 0.970    | 0.018     | 0.011     | 0.957       |
|                   | 5/6         | N/A      | N/A       | N/A       | N/A         |

Table 3.4.2.12

| Overall Indices   | Accuracy    | Consistency |           | Kaj       | ppa (k)     |
|-------------------|-------------|-------------|-----------|-----------|-------------|
|                   | 0.811       | 0.734       |           | 0.632     |             |
| Conditional on    | Level       | Accu        | iracy     | Cons      | sistency    |
| Level             | 1           | 0.8         | 373       | 0         | .794        |
|                   | 2           | 0.7         | 76        | 0         | .689        |
|                   | 3           | 0.8         | 327       | 0         | .769        |
|                   | 4           | 0.7         | '95       | 0.711     |             |
|                   | 5           | 0.740       |           | 0.547     |             |
|                   | 6           | N/          | /A        | ľ         | N/A         |
| Indices at        | Proficiency |             | Accuracy  |           |             |
| Proficiency Level | Level Cut   |             | False     | False     |             |
| Cut Points        | Point       | Accuracy    | Positives | Negatives | Consistency |
|                   | 1/2         | 0.964       | 0.015     | 0.021     | 0.949       |
|                   | 2/3         | 0.933       | 0.031     | 0.036     | 0.905       |
|                   | 3/4         | 0.935       | 0.036     | 0.028     | 0.909       |
|                   |             |             |           |           |             |
|                   | 4/5         | 0.980       | 0.014     | 0.006     | 0.971       |

Accuracy and Consistency of Classification Indices: Litr (Grade 12) S403 Online

# 3.4.3 Comprehension

Table 3.4.3.1

Accuracy and Consistency of Classification Indices: Cphn (Grade 1) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kappa (k) |             |
|--------------------------|-------------|----------|-----------|-----------|-------------|
|                          | 0.644       | 0.5      | 39        | 0.435     |             |
| Conditional on           | Level       | Accu     | iracy     | Cons      | sistency    |
| Level                    | 1           | 0.7      | 62        | 0         | .602        |
|                          | 2           | 0.6      | 504       | 0         | .486        |
|                          | 3           | 0.6      | 528       | 0         | .520        |
|                          | 4           | 0.4      | 22        | 0         | .324        |
|                          | 5           | 0.6      | 535       | 0.518     |             |
|                          | 6           | 0.8      | 350       | 0         | .759        |
| Indices at               | Proficiency |          | Accuracy  |           |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False     |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives | Consistency |
|                          | 1/2         | 0.957    | 0.015     | 0.028     | 0.939       |
|                          | 2/3         | 0.920    | 0.040     | 0.041     | 0.886       |
|                          | 3/4         | 0.898    | 0.055     | 0.046     | 0.859       |
|                          | 4/5         | 0.906    | 0.049     | 0.045     | 0.869       |
|                          | 5/6         | 0.943    | 0.031     | 0.026     | 0.918       |

Table 3.4.3.2

| <b>Overall Indices</b> | Accuracy    | Consistency |           | Kappa (k) |             |
|------------------------|-------------|-------------|-----------|-----------|-------------|
|                        | 0.664       | 0.559       |           | 0.461     |             |
| Conditional on         | Level       | Accu        | Accuracy  |           | sistency    |
| Level                  | 1           | 0.8         | 314       | 0         | .680        |
|                        | 2           | 0.6         | 591       | 0         | .582        |
|                        | 3           | 0.6         | 548       | 0         | .539        |
|                        | 4           | 0.4         | 50        | 0.345     |             |
|                        | 5           | 0.6         | 532       | 0.514     |             |
|                        | 6           | 0.8         | 347       | 0.749     |             |
| Indices at             | Proficiency |             | Accuracy  |           |             |
| Proficiency Level      | Level Cut   |             | False     | False     |             |
| Cut Points             | Point       | Accuracy    | Positives | Negatives | Consistency |
|                        | 1/2         | 0.964       | 0.013     | 0.023     | 0.949       |
|                        | 2/3         | 0.923       | 0.037     | 0.041     | 0.891       |
|                        | 2/4         | 0.907       | 0.047     | 0.046     | 0.869       |
|                        | 3/4         |             |           | 0.0.0     |             |
|                        | 3/4<br>4/5  | 0.914       | 0.047     | 0.039     | 0.879       |

Accuracy and Consistency of Classification Indices: Cphn (Grade 2) S403 Online

Accuracy and Consistency of Classification Indices: Cphn (Grade 3) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj       | ppa (k)     |
|--------------------------|-------------|----------|-----------|-----------|-------------|
|                          | 0.656       | 0.5      | 55        | 0.459     |             |
| Conditional on           | Level       | Accu     | iracy     | Cons      | sistency    |
| Level                    | 1           | 0.8      | 36        | 0         | .721        |
|                          | 2           | 0.6      | 56        | 0         | .539        |
|                          | 3           | 0.6      | 512       | 0         | .501        |
|                          | 4           | 0.4      | 04        | 0         | .307        |
|                          | 5           | 0.5      | 590       | 0.476     |             |
|                          | 6           | 0.8      | 861       | 0         | .772        |
| Indices at               | Proficiency |          | Accuracy  |           |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False     |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives | Consistency |
|                          | 1/2         | 0.962    | 0.014     | 0.024     | 0.946       |
|                          | 2/3         | 0.926    | 0.034     | 0.039     | 0.896       |
|                          | 3/4         | 0.906    | 0.047     | 0.046     | 0.869       |
|                          | 4/5         | 0.910    | 0.047     | 0.043     | 0.873       |
|                          | 5/6         | 0.932    | 0.041     | 0.027     | 0.904       |

Table 3.4.3.4

| <b>Overall Indices</b> | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|------------------------|-------------|----------|-----------|-------------|-------------|
|                        | 0.714       | 0.625    |           | 0.497       |             |
| Conditional on         | Level       | Accuracy |           | Consistency |             |
| Level                  | 1           | 0.8      | 0.860 0.7 |             | .735        |
|                        | 2           | 0.6      | 598       | 0           | .571        |
|                        | 3           | 0.6      | 519       | 0           | .489        |
|                        | 4           | 0.4      | 59        | 0.349       |             |
|                        | 5           | 0.637    |           | 0.529       |             |
|                        | 6           | 0.8      | 373       | 0           | .819        |
| Indices at             | Proficiency |          | Accuracy  |             |             |
| Proficiency Level      | Level Cut   |          | False     | False       |             |
| Cut Points             | Point       | Accuracy | Positives | Negatives   | Consistency |
|                        | 1/2         | 0.988    | 0.003     | 0.009       | 0.984       |
|                        | 2/3         | 0.967    | 0.013     | 0.020       | 0.952       |
|                        | 3/4         | 0.934    | 0.032     | 0.034       | 0.905       |
|                        | 4/5         | 0.910    | 0.044     | 0.046       | 0.874       |
|                        |             |          |           |             |             |

Accuracy and Consistency of Classification Indices: Cphn (Grade 4) S403 Online

Accuracy and Consistency of Classification Indices: Cphn (Grade 5) S403 Online

| Overall Indices          | Accuracy    | Consi     | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|-----------|-----------|-------------|-------------|
|                          | 0.691       | 0.601     |           | 0.479       |             |
| Conditional on           | Level       | Accuracy  |           | Consistency |             |
| Level                    | 1           | 0.876 0.7 |           | .772        |             |
|                          | 2           | 0.6       | 54        | 0           | .525        |
|                          | 3           | 0.5       | 85        | 0           | .457        |
|                          | 4           | 0.4       | 43        | 0           | .338        |
|                          | 5           | 0.6       | 605       | 0           | .496        |
|                          | 6           | 0.8       | 860       | 0           | .801        |
| Indices at               | Proficiency |           | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |           | False     | False       |             |
| Cut Points               | Point       | Accuracy  | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.982     | 0.005     | 0.013       | 0.975       |
|                          | 2/3         | 0.961     | 0.018     | 0.022       | 0.943       |
|                          | 3/4         | 0.925     | 0.038     | 0.036       | 0.894       |
|                          | 4/5         | 0.903     | 0.046     | 0.050       | 0.867       |
|                          | 5/6         | 0.903     | 0.045     | 0.052       | 0.864       |

Table 3.4.3.6

| <b>Overall Indices</b> | Accuracy    | Consi          | stency    | Kaj         | ppa (k)     |  |
|------------------------|-------------|----------------|-----------|-------------|-------------|--|
|                        | 0.697       | 0.597          |           | 0.505       |             |  |
| Conditional on         | Level       | Accuracy       |           | Consistency |             |  |
| Level                  | 1           | 0.8            | 0.890     |             | 0.816       |  |
|                        | 2           | 0.7            | 0.747     |             | .653        |  |
|                        | 3           | 0.6            | 82        | 0           | .577        |  |
|                        | 4           | 0.5            | 28        | 0.417       |             |  |
|                        | 5           | 0.649          |           | 0.533       |             |  |
|                        | 6           | 0.7            | 74        | 0           | .635        |  |
| Indices at             | Proficiency |                | Accuracy  |             |             |  |
| Proficiency Level      | Level Cut   |                | False     | False       |             |  |
| Cut Points             | Point       | Accuracy       | Positives | Negatives   | Consistency |  |
|                        | 1/2         | 0.965          | 0.012     | 0.023       | 0.951       |  |
|                        |             |                |           | 0.000       | 0.002       |  |
|                        | 2/3         | 0.932          | 0.035     | 0.033       | 0.903       |  |
|                        | 2/3<br>3/4  | 0.932<br>0.912 | 0.035     | 0.033       | 0.903       |  |
|                        |             |                |           |             |             |  |

Accuracy and Consistency of Classification Indices: Cphn (Grade 6) S403 Online

Accuracy and Consistency of Classification Indices: Cphn (Grade 7) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.689       | 0.590    |           | 0.502       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.891    |           | 0           | .820        |
|                   | 2           | 0.7      | '05       | 0           | .604        |
|                   | 3           | 0.6      | 54        | 0           | .546        |
|                   | 4           | 0.5      | 513       | 0           | .402        |
|                   | 5           | 0.593    |           | 0.471       |             |
|                   | 6           | 0.8      | 31        | 0           | .720        |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.955    | 0.016     | 0.029       | 0.938       |
|                   | 2/3         | 0.927    | 0.039     | 0.034       | 0.897       |
|                   | 3/4         | 0.914    | 0.048     | 0.039       | 0.880       |
|                   | 4/5         | 0.927    | 0.038     | 0.035       | 0.897       |
|                   | 5/6         | 0.957    | 0.025     | 0.018       | 0.939       |

Table 3.4.3.8

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.682       | 0.584    |           | 0.497       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.8      | 0.893 0.3 |             | .826        |
|                   | 2           | 0.6      | 0.684     |             | .576        |
|                   | 3           | 0.6      | 528       | 0           | .516        |
|                   | 4           | 0.480    |           | 0.373       |             |
|                   | 5           | 0.588    |           | 0.470       |             |
|                   | 6           | 0.8      | 31        | 0           | .725        |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.953    | 0.018     | 0.029       | 0.935       |
|                   | 2/3         | 0.928    | 0.038     | 0.034       | 0.898       |
|                   | 3/4         | 0.914    | 0.046     | 0.040       | 0.881       |
|                   |             |          |           |             |             |
|                   | 4/5         | 0.924    | 0.039     | 0.037       | 0.893       |

Accuracy and Consistency of Classification Indices: Cphn (Grade 8) S403 Online

Accuracy and Consistency of Classification Indices: Cphn (Grade 9) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.707       | 0.610    |           | 0.522       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.858    |           | 0           | .770        |
|                          | 2           | 0.7      | '58       | 0           | .673        |
|                          | 3           | 0.6      | 56        | 0           | .544        |
|                          | 4           | 0.4      | 82        | 0           | .371        |
|                          | 5           | 0.6      | 535       | 0           | .515        |
|                          | 6           | 0.845    |           | 0           | .750        |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.952    | 0.019     | 0.030       | 0.932       |
|                          | 2/3         | 0.927    | 0.037     | 0.036       | 0.897       |
|                          | 3/4         | 0.927    | 0.039     | 0.034       | 0.897       |
|                          | 4/5         | 0.936    | 0.036     | 0.028       | 0.910       |
|                          | 5/6         | 0.959    | 0.023     | 0.017       | 0.942       |

Table 3.4.3.10

| <b>Overall Indices</b> | Accuracy    | Consi          | stency         | Kaj         | ppa (k)        |  |
|------------------------|-------------|----------------|----------------|-------------|----------------|--|
|                        | 0.703       | 0.605          |                | 0.519       |                |  |
| Conditional on         | Level       | Accuracy       |                | Consistency |                |  |
| Level                  | 1           | 0.868          |                | 0           | 0.784          |  |
|                        | 2           | 0.738          |                | 0.646       |                |  |
|                        | 3           | 0.6            | 64             | 0           | .554           |  |
|                        | 4           | 0.4            | 82             | 0.372       |                |  |
|                        | 5           | 0.627          |                | 0.508       |                |  |
|                        | 6           | 0.8            | 342            | 0           | .747           |  |
| Indices at             | Proficiency |                | Accuracy       |             |                |  |
| Proficiency Level      | Level Cut   |                | False          | False       |                |  |
| Cut Points             | Point       | Accuracy       | Positives      | Negatives   | Consistency    |  |
|                        | 1/2         | 0.953          | 0.018          | 0.029       | 0.934          |  |
|                        | 2/3         | 0.928          | 0.036          | 0.036       | 0.899          |  |
|                        |             |                |                |             |                |  |
|                        | 3/4         | 0.925          | 0.041          | 0.034       | 0.894          |  |
|                        |             | 0.925<br>0.932 | 0.041<br>0.038 | 0.034       | 0.894<br>0.905 |  |

Accuracy and Consistency of Classification Indices: Cphn (Grade 10) S403 Online

Accuracy and Consistency of Classification Indices: Cphn (Grade 11) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.698       | 0.601    |           | 0.515       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.869    |           | 0           | .786        |
|                          | 2           | 0.7      | '40       | 0           | .647        |
|                          | 3           | 0.6      | 537       | 0           | .524        |
|                          | 4           | 0.4      | 55        | 0           | .349        |
|                          | 5           | 0.6      | 543       | 0           | .526        |
|                          | 6           | 0.8      | 39        | 0           | .743        |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.953    | 0.018     | 0.029       | 0.935       |
|                          | 2/3         | 0.929    | 0.035     | 0.036       | 0.899       |
|                          | 3/4         | 0.924    | 0.042     | 0.035       | 0.893       |
|                          | 4/5         | 0.928    | 0.040     | 0.032       | 0.900       |
|                          | 5/6         | 0.954    | 0.025     | 0.021       | 0.934       |

Table 3.4.3.12

| Overall Indices   | Accuracy    | Consi          | stency    | Kaj         | ppa (k)        |  |
|-------------------|-------------|----------------|-----------|-------------|----------------|--|
|                   | 0.703       | 0.605          |           | 0.516       |                |  |
| Conditional on    | Level       | Accuracy       |           | Consistency |                |  |
| Level             | 1           | 0.8            | 0.872 0.7 |             | .792           |  |
|                   | 2           | 0.7            | '40       | 0.649       |                |  |
|                   | 3           | 0.6            | 547       | 0           | .537           |  |
|                   | 4           | 0.5            | 505       | 0.393       |                |  |
|                   | 5           | 0.644          |           | 0.523       |                |  |
|                   | 6           | 0.8            | 34        | 0           | 0.725          |  |
| Indices at        | Proficiency |                | Accuracy  |             |                |  |
| Proficiency Level | Level Cut   |                | False     | False       |                |  |
| Cut Points        | Point       | Accuracy       | Positives | Negatives   | Consistency    |  |
|                   | 1/2         | 0.950          | 0.020     | 0.030       | 0.930          |  |
|                   | 2/3         | 0.925          | 0.037     | 0.038       | 0.894          |  |
|                   |             |                |           |             |                |  |
|                   | 3/4         | 0.923          | 0.043     | 0.034       | 0.893          |  |
|                   | 3/4<br>4/5  | 0.923<br>0.934 | 0.043     | 0.034       | 0.893<br>0.908 |  |

Accuracy and Consistency of Classification Indices: Cphn (Grade 12) S403 Online

# 3.4.4 Overall

#### Table 3.4.4.1

Accuracy and Consistency of Classification Indices: Over (Grade 1) S403 Online

| Overall Indices          | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|--------------------------|-------------|----------|-----------|-------------|-------------|
|                          | 0.841       | 0.776    |           | 0.662       |             |
| Conditional on           | Level       | Accuracy |           | Consistency |             |
| Level                    | 1           | 0.841    |           | 0           | .746        |
|                          | 2           | 0.8      | 819       | 0           | .749        |
|                          | 3           | 0.8      | 372       | 0           | .830        |
|                          | 4           | 0.7      | /56       | 0.653       |             |
|                          | 5           | 0.889    |           | 0.742       |             |
|                          | 6           | N/A      |           | ١           | N/A         |
| Indices at               | Proficiency |          | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |          | False     | False       |             |
| Cut Points               | Point       | Accuracy | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.966    | 0.016     | 0.018       | 0.951       |
|                          | 2/3         | 0.924    | 0.038     | 0.039       | 0.892       |
|                          | 3/4         | 0.960    | 0.023     | 0.017       | 0.943       |
|                          | 4/5         | 0.991    | 0.008     | 0.001       | 0.989       |
|                          | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 3.4.4.2

| Overall Indices   | Accuracy    | Consi          | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------------|-----------|-------------|-------------|
|                   | 0.839       | 0.779          |           | 0.673       |             |
| Conditional on    | Level       | Accuracy       |           | Consistency |             |
| Level             | 1           | 0.874          |           | 0           | .798        |
|                   | 2           | 0.8            | 330       | 0.756       |             |
|                   | 3           | 0.8            | 378       | 0           | .835        |
|                   | 4           | 0.753          |           | 0.690       |             |
|                   | 5           | -              |           | -           |             |
|                   | 6           | N/             | Ά/A       | 1           | N/A         |
| Indices at        | Proficiency |                | Accuracy  |             |             |
| Proficiency Level | Level Cut   |                | False     | False       |             |
| Cut Points        | Point       | Accuracy       | Positives | Negatives   | Consistency |
|                   | 1 /2        |                |           | 0.011       | 0.070       |
|                   | 1/2         | 0.979          | 0.009     | 0.011       | 0.970       |
|                   | 2/3         | 0.979<br>0.945 | 0.009     | 0.011       | 0.970       |
|                   |             |                |           |             |             |
|                   | 2/3         | 0.945          | 0.026     | 0.029       | 0.922       |

Accuracy and Consistency of Classification Indices: Over (Grade 2) S403 Online

Accuracy and Consistency of Classification Indices: Over (Grade 3) S403 Online

| Overall Indices   | Accuracy    | Consi       | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|-------------|-----------|-------------|-------------|
|                   | 0.824       | 0.763       |           | 0.654       |             |
| Conditional on    | Level       | Accuracy    |           | Consistency |             |
| Level             | 1           | 0.895 0.831 |           | .831        |             |
|                   | 2           | 0.7         | '84       | 0           | .693        |
|                   | 3           | 0.8         | 376       | 0           | .825        |
|                   | 4           | 0.7         | /63       | 0           | .717        |
|                   | 5           | -           |           | -           |             |
|                   | 6           | N           | /A        | 1           | N/A         |
| Indices at        | Proficiency |             | Accuracy  |             |             |
| Proficiency Level | Level Cut   |             | False     | False       |             |
| Cut Points        | Point       | Accuracy    | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.982       | 0.008     | 0.011       | 0.974       |
|                   | 2/3         | 0.954       | 0.023     | 0.023       | 0.935       |
|                   | 3/4         | 0.924       | 0.032     | 0.044       | 0.893       |
|                   | 4/5         | 0.964       | 0.036     | 0.000       | 0.961       |
|                   | 5/6         | N/A         | N/A       | N/A         | N/A         |

Table 3.4.4.4

| <b>Overall Indices</b> | Accuracy    | Consistency Kappa (k)                     |                           |                    |                      |
|------------------------|-------------|---|---------------------------|--------------------|----------------------|
|                        | 0.799       | 0.734                                     |                           | 0.610              |                      |
| Conditional on         | Level       | Accuracy                                  |                           | Consistency        |                      |
| Level                  | 1           | 0.805<br>0.754<br>0.874<br>0.815<br>0.580 |                           | 0.840              |                      |
|                        | 2           |   |                           | 0.650              |                      |
|                        | 3           |   |                           | 0.816              |                      |
|                        | 4           |   |                           | 0.755              |                      |
|                        | 5           |   |                           | 0.482              |                      |
|                        | 6           |   |                           | -                  |                      |
| Indices at             | Proficiency |   | Accuracy                  |                    |                      |
| Proficiency Level      | Level Cut   |   | False                     | False              |                      |
| Cut Dointa             |             |   |                           |                    |                      |
| Cutronits              | Point       | Accuracy                                  | Positives                 | Negatives          | Consistency          |
| Cut Points             | Point 1/2   | <b>Accuracy</b> 0.986                     | <b>Positives</b><br>0.008 | Negatives<br>0.005 | Consistency<br>0.987 |
| Cut romts              |             | v   |                           |                    | ľ                    |
| Cut rounts             | 1/2         | 0.986                                     | 0.008                     | 0.005              | 0.987                |
| Cutronits              | 1/2<br>2/3  | 0.986<br>0.972                            | 0.008<br>0.017            | 0.005              | 0.987<br>0.966       |

Accuracy and Consistency of Classification Indices: Over (Grade 4) S403 Online

Accuracy and Consistency of Classification Indices: Over (Grade 5) S403 Online

| Overall Indices          | Accuracy    | Consistency |           | Kappa (k)   |             |
|--------------------------|-------------|-------------|-----------|-------------|-------------|
|                          | 0.777       | 0.711       |           | 0.583       |             |
| Conditional on           | Level       | Accuracy    |           | Consistency |             |
| Level                    | 1           | 0.848       |           | 0.845       |             |
|                          | 2           | 0.762       |           | 0.656       |             |
|                          | 3           | 0.863       |           | 0.798       |             |
|                          | 4           | 0.773       |           | 0.729       |             |
|                          | 5           | 0.544       |           | 0.434       |             |
|                          | 6           | -           |           | -           |             |
| Indices at               | Proficiency |             | Accuracy  |             |             |
| <b>Proficiency Level</b> | Level Cut   |             | False     | False       |             |
| Cut Points               | Point       | Accuracy    | Positives | Negatives   | Consistency |
|                          | 1/2         | 0.986       | 0.008     | 0.006       | 0.984       |
|                          | 2/3         | 0.971       | 0.016     | 0.013       | 0.962       |
|                          | 3/4         | 0.935       | 0.028     | 0.036       | 0.913       |
|                          | 4/5         | 0.884       | 0.076     | 0.040       | 0.856       |
|                          | 5/6         | 0.988       | 0.012     | 0.000       | 0.992       |

Table 3.4.4.6

| <b>Overall Indices</b> | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|------------------------|-------------|----------|-----------|-------------|-------------|
|                        | 0.848       | 0.791    |           | 0.697       |             |
| Conditional on         | Level       | Accu     | iracy     | Consistency |             |
| Level                  | 1           | 0.899    |           | 0           | .841        |
|                        | 2 0.8       |          | 31        | 0.758       |             |
|                        | 3           | 0.875    |           | 0           | .826        |
|                        | 4           | 4 0.800  |           | 0.743       |             |
|                        | 5           | -        |           | -           |             |
|                        | 6           | N/       | Ά/A       | 1           | N/A         |
| Indices at             | Proficiency |          | Accuracy  |             |             |
| Proficiency Level      | Level Cut   | False    |           | False       |             |
| Cut Points             | Point       | Accuracy | Positives | Negatives   | Consistency |
|                        | 1/2         | 0.979    | 0.010     | 0.011       | 0.970       |
|                        | 2/3         | 0.952    | 0.022     | 0.025       | 0.933       |
|                        | 3/4         | 0.931    | 0.031     | 0.038       | 0.903       |
|                        |             |          |           |             | 0.005       |
|                        | 4/5         | 0.986    | 0.014     | 0.000       | 0.985       |

Accuracy and Consistency of Classification Indices: Over (Grade 6) S403 Online

#### Table 3.4.4.7

Accuracy and Consistency of Classification Indices: Over (Grade 7) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.832       | 0.7      | 70        | 0.681       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.8      | 899       | 0.841       |             |
|                   | 2           | 0.8      | 806       | 0           | .725        |
|                   | 3           | 0.8      | 355       | 0.801       |             |
|                   | 4           | 0.7      | '88       | 0           | .740        |
|                   | 5           | -        |           | -           |             |
|                   | 6           | N        | Ά/A       | N/A         |             |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.971    | 0.013     | 0.016       | 0.959       |
|                   | 2/3         | 0.947    | 0.025     | 0.028       | 0.924       |
|                   | 3/4         | 0.938    | 0.030     | 0.032       | 0.912       |
|                   | 4/5         | 0.977    | 0.023     | 0.000       | 0.974       |
|                   | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 3.4.4.8

| <b>Overall Indices</b> | Accuracy    | Consi    | stency         | Kappa (k)      |                |  |
|------------------------|-------------|----------|----------------|----------------|----------------|--|
|                        | 0.823       | 0.7      | 56             | 0.669          |                |  |
| Conditional on         | Level       | Accu     | iracy          | Consistency    |                |  |
| Level                  | 1           | 0.906    |                | 0              | 0.853          |  |
|                        | 2           | 0.791    |                | 0.705          |                |  |
|                        | 3           | 0.839    |                | 0.777          |                |  |
|                        | 4           | 0.782    |                | 0.736          |                |  |
|                        | 5           | -        |                | -              |                |  |
|                        | 6           | N/A      |                | N/A            |                |  |
| Indices at             | Proficiency |          | Accuracy       |                |                |  |
| Proficiency Level      | Level Cut   |          | False          | False          |                |  |
| Cut Points             | Point       | Accuracy | Positives      | Negatives      | Consistency    |  |
|                        | 1/2         | 0.969    | 0.014          | 0.017          | 0.955          |  |
|                        |             |          |                |                |                |  |
|                        | 2/3         | 0.946    | 0.025          | 0.028          | 0.924          |  |
|                        | 2/3<br>3/4  |          | 0.025<br>0.031 | 0.028<br>0.034 | 0.924<br>0.909 |  |
|                        |             | 0.946    |                |                |                |  |

Accuracy and Consistency of Classification Indices: Over (Grade 8) S403 Online

#### Table 3.4.4.9

Accuracy and Consistency of Classification Indices: Over (Grade 9) S403 Online

| Overall Indices          | Accuracy    | Consistency |           | Kaj         | ppa (k)     |  |
|--------------------------|-------------|-------------|-----------|-------------|-------------|--|
|                          | 0.839       | 0.774       |           | 0.689       |             |  |
| Conditional on           | Level       | Accuracy    |           | Consistency |             |  |
| Level                    | 1           | 0.922       |           | 0.875       |             |  |
|                          | 2           | 0.768       |           | 0.682       |             |  |
|                          | 3           | 0.873       |           | 0.825       |             |  |
|                          | 4           | 0.801       |           | 0           | 0.731       |  |
|                          | 5           | 0.7         | 744 0.555 |             | .555        |  |
|                          | 6           | N           | /A        | N/A         |             |  |
| Indices at               | Proficiency |             | Accuracy  |             |             |  |
| <b>Proficiency Level</b> | Level Cut   |             | False     | False       |             |  |
| Cut Points               | Point       | Accuracy    | Positives | Negatives   | Consistency |  |
|                          | 1/2         | 0.970       | 0.011     | 0.019       | 0.958       |  |
|                          | 2/3         | 0.948       | 0.028     | 0.024       | 0.926       |  |
|                          | 3/4         | 0.943       | 0.028     | 0.029       | 0.919       |  |
|                          | 4/5         | 0.979       | 0.015     | 0.006       | 0.971       |  |
|                          | 5/6         | N/A         | N/A       | N/A         | N/A         |  |

Table 3.4.4.10

| <b>Overall Indices</b> | Accuracy            | Consi                 | stency         | Kaj           | Kappa (k)   |  |
|------------------------|---------------------|-----------------------|----------------|---------------|-------------|--|
|                        | 0.845               | 0.782                 |                | 0.695         |             |  |
| Conditional on         | Level               | Accu                  | iracy          | Consistency   |             |  |
| Level                  | 1                   | 0.912                 |                | 0.858         |             |  |
|                        | 2                   | 0.780                 |                | 0.697         |             |  |
|                        | 3                   | 0.873                 |                | 0.827         |             |  |
|                        | 4                   | 0.825                 |                | 0             | 0.760       |  |
|                        | 5                   | 0.7                   | 59 0.57        |               | .575        |  |
|                        | 6                   | N/A N                 |                | N/A           |             |  |
| Indices at             | Proficiency         |                       | Accuracy       |               |             |  |
| Proficiency Level      | Level Cut           | False                 |                | False         |             |  |
| Cut Points             | <b>D</b> • 4        |                       | -              | <b>N</b> T /* | ~ · ·       |  |
|                        | Point               | Accuracy              | Positives      | Negatives     | Consistency |  |
|                        | <b>Point</b><br>1/2 | <b>Accuracy</b> 0.971 | 0.011          | 0.018         | 0.960       |  |
| Cut I Units            |                     |                       |                | Ŭ             | •           |  |
| Cut I Units            | 1/2                 | 0.971                 | 0.011          | 0.018         | 0.960       |  |
|                        | 1/2<br>2/3          | 0.971<br>0.948        | 0.011<br>0.027 | 0.018         | 0.960       |  |

Accuracy and Consistency of Classification Indices: Over (Grade 10) S403 Online

#### Table 3.4.4.11

Accuracy and Consistency of Classification Indices: Over (Grade 11) S403 Online

| Overall Indices   | Accuracy    | Consi    | stency    | Kaj         | ppa (k)     |
|-------------------|-------------|----------|-----------|-------------|-------------|
|                   | 0.841       | 0.7      | 77        | 0.690       |             |
| Conditional on    | Level       | Accuracy |           | Consistency |             |
| Level             | 1           | 0.905    |           | 0.848       |             |
|                   | 2           | 0.787    |           | 0.705       |             |
|                   | 3           | 0.869    |           | 0           | .823        |
|                   | 4           | 0.8      | 0.813 0.  |             | .749        |
|                   | 5           | 0.7      | '53       | 0           | .556        |
|                   | 6           | N        | /A        | N/A         |             |
| Indices at        | Proficiency |          | Accuracy  |             |             |
| Proficiency Level | Level Cut   |          | False     | False       |             |
| Cut Points        | Point       | Accuracy | Positives | Negatives   | Consistency |
|                   | 1/2         | 0.971    | 0.012     | 0.017       | 0.959       |
|                   | 2/3         | 0.947    | 0.027     | 0.026       | 0.925       |
|                   | 3/4         | 0.944    | 0.029     | 0.028       | 0.920       |
|                   | 4/5         | 0.980    | 0.015     | 0.005       | 0.973       |
|                   | 5/6         | N/A      | N/A       | N/A         | N/A         |

Table 3.4.4.12

| Overall Indices   | Accuracy    | Consi        | stency    | Kappa (k)   |             |  |
|-------------------|-------------|--------------|-----------|-------------|-------------|--|
|                   | 0.845       | 0.785        |           | 0.697       |             |  |
| Conditional on    | Level       | Accu         | iracy     | Consistency |             |  |
| Level             | 1           | 0.906        |           | 0           | 0.851       |  |
|                   | 2           | 0.802        |           | 0.724       |             |  |
|                   | 3           | 0.874        |           | 0.829       |             |  |
|                   | 4           | 0.791        |           | 0           | 0.725       |  |
|                   | 5           | 0.770<br>N/A |           | 0.505       |             |  |
|                   | 6           |              |           | N/A         |             |  |
| Indices at        | Proficiency |              | Accuracy  |             |             |  |
| Proficiency Level | Level Cut   |              | False     | False       |             |  |
| Cut Points        | Point       | Accuracy     | Positives | Negatives   | Consistency |  |
|                   | 1/2         | 0.968        | 0.014     | 0.018       | 0.955       |  |
|                   | 2/3         | 0.943        | 0.029     | 0.028       | 0.919       |  |
|                   | 3/4         | 0.949        | 0.026     | 0.025       | 0.927       |  |
|                   | 4/5         | 0.986        | 0.013     | 0.001       | 0.983       |  |
|                   | 175         |              |           |             |             |  |

Accuracy and Consistency of Classification Indices: Over (Grade 12) S403 Online

# 3.5 CSEM for Composites

Conditional standard errors of measurement (CSEMs) for the four ACCESS composites provide test users a benchmark of how free the composite scale score is from measurement errors at the various points of the composites. Due to the differential weights applied to different ACCESS domains (see the introduction to this chapter for the weighting conventions), the CSEMs were estimated using a procedure based on item response theory (IRT; Lord, 1980) and developed by Price, Lurie, Raju, Wilkins, and Zhu (2006). Price et al. (2006) extended the work by Lord (1980) and Kolen, Hanson, and Brennan (1992) in estimating the CSEM of a composite consisting of subtests. The basic premise of this procedure is that the student-level CSEM for a weighted composite can be estimated empirically using the IRT-based CSEMs for each student on the subtests and the weights associated with the subtests. This method was used to estimate the CSEM for ACCESS composites by treating the ACCESS domains as subtests.

A three-step process was used in deriving the CSEM for ACCESS composites. The derivation was conducted by grade and composite to obtain a unique CSEM for each composite score by grade by composite. Since this procedure replies on empirical student data, which are subject to year-to-year fluctuation, all population student data from the previous ACCESS series were used in the derivation to obtain more stable estimates than using only data from a single series.

**Step 1.** Since ACCESS domains were calibrated separately, measurement errors associated with each of the ACCESS domains, as expressed in the conditional errors of measurement, are independent of each other. Therefore, the CSEM for a student with composite score x,  $SEM_x$ , can be estimated using the equation derived by Price et al. (2006):

 $SEM_x = \sqrt{W_1^2 SEM_1^2 + W_2^2 SEM_2^2 + W_3^2 SEM_3^2 + \dots + W_k^2 SEM_k^2}$ 

Where  $SEM_i^2$  is the student's IRT-based score error variance or student's squared CSEM in ACCESS domain *i* and  $W_i$  is the weight applied to domain *i*, for *i*=1,...,*k*.

**Step 2.** Due to the differential weights applied to different ACCESS domains, two students with the same sum of weighted domain score, or composite, may obtain different CSEMs; therefore, an additional step was taken to obtain a unique value for each composite score. Specifically, the expected value of the CSEM functions for a composite score was estimated using a regression approach, and this expected value was used as the reported CSEM for that composite score.

**Step 3.** A linear smoothing procedure was applied to derive the CSEMs for composite scores that were not observed in the data.

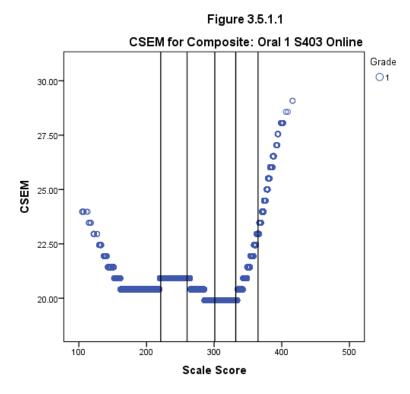
The figures in this section show graphically the CSEMs for various composite scores by grade level. Figures show the relationship between the students' composite scores on the horizontal axis and conditional measurement errors on the vertical axis. Each point in the figures represents a student in the dataset, expressing both the student's CSEM and that student's scale score for the given composite score. Values for students who received the lowest possible scores on any ACCESS domains are not plotted, as the conditional measurement errors for these students cannot be computed accurately. For grade-level clusters with multiple grades, different colors are used in the figures to represent students in different grades.

Five vertical lines in the figure indicate the five ACCESS cut scores for the highest grade in the grade-level cluster for the test form, dividing the figure into six sections for each of the WIDA proficiency levels (1–6) for the composites.

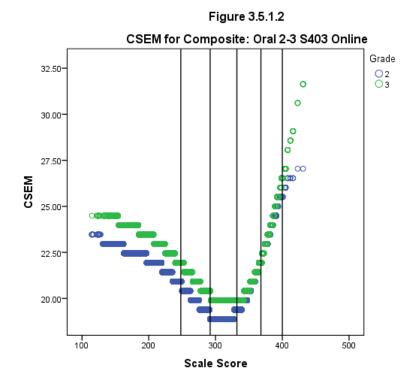
Low CSEM values indicate less measurement error or more accuracy in measurement. The general trend in these figures shows that the CSEMs are lower and fairly constant in the middle of the score range and higher and more variable for extreme low and high scores, as expected.

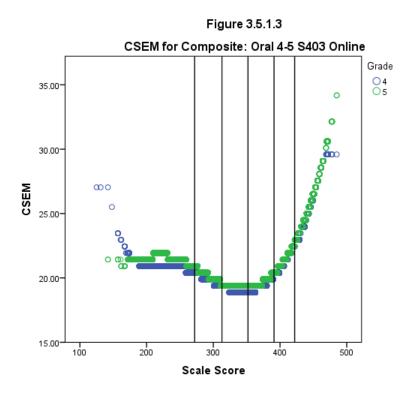
## 3.5.1 Oral

3.5.1.1 Grade 1

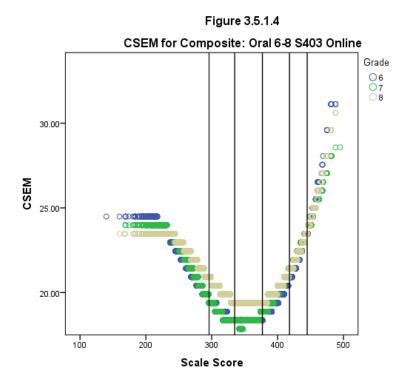


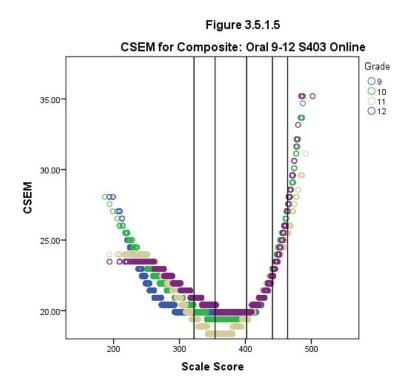
3.5.1.2 Grades 2-3





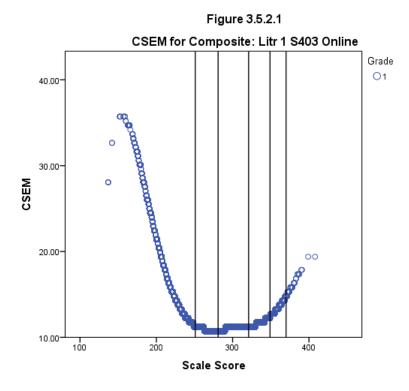




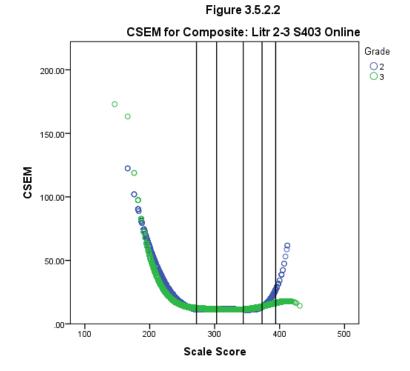


# 3.5.2 Literacy

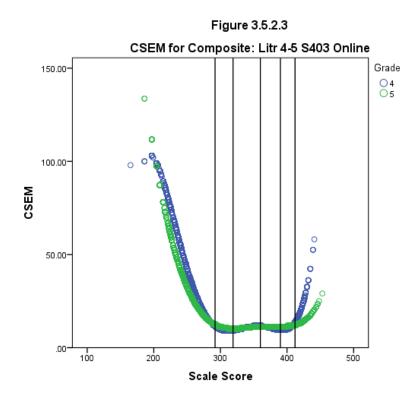
3.5.2.1 Grade 1



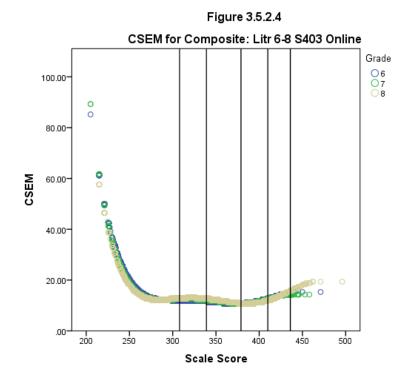
3.5.2.2 Grades 2-3



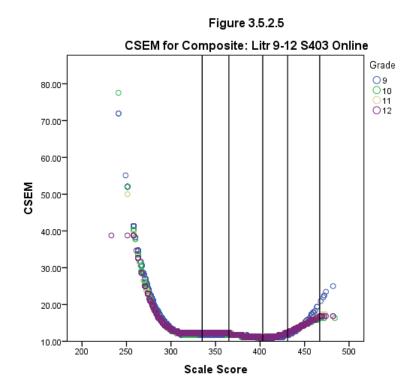
## 3.5.2.3 Grades 4-5



3.5.2.4 Grades 6-8

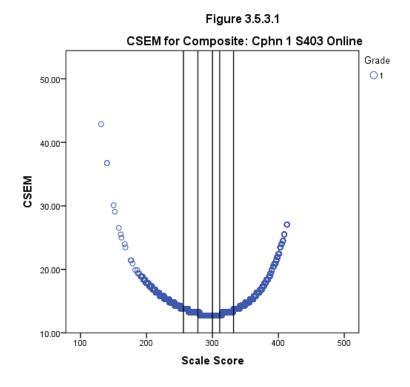


## 3.5.2.5 Grades 9-12

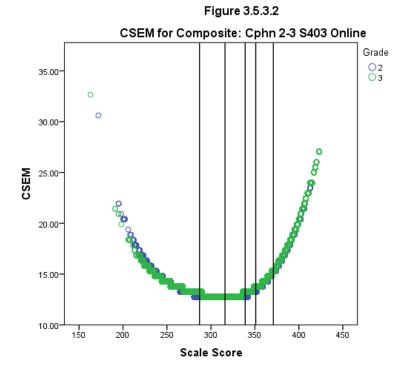


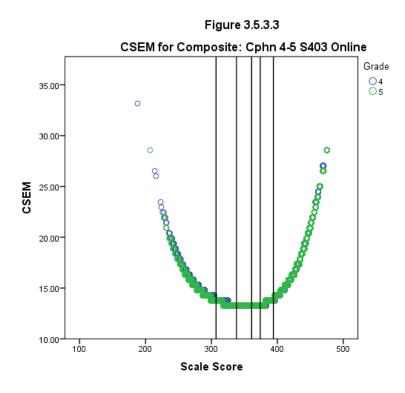
# 3.5.3 Comprehension

3.5.3.1 Grade 1

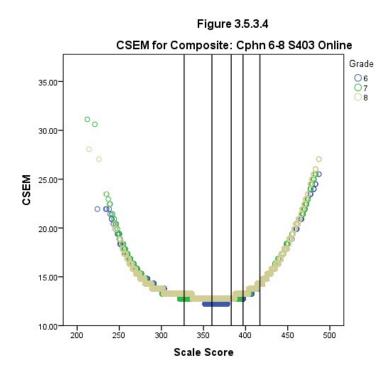


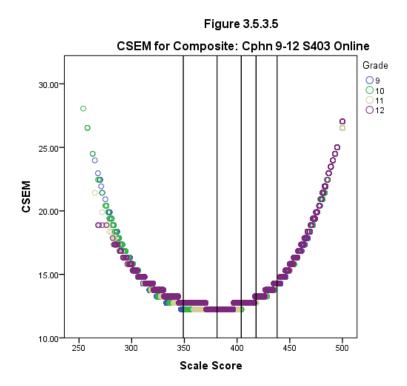
3.5.3.2 Grades 2–3





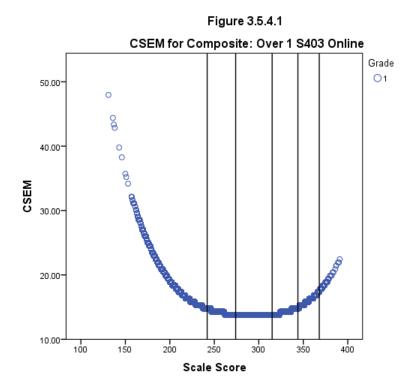




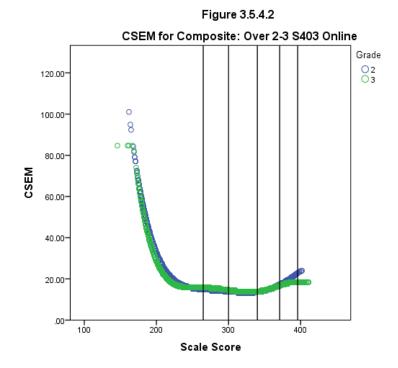


## 3.5.4 Overall

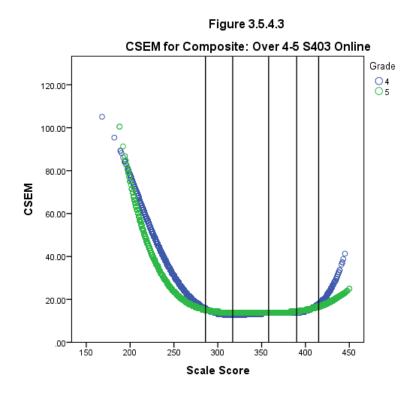
3.5.4.1 Grade 1



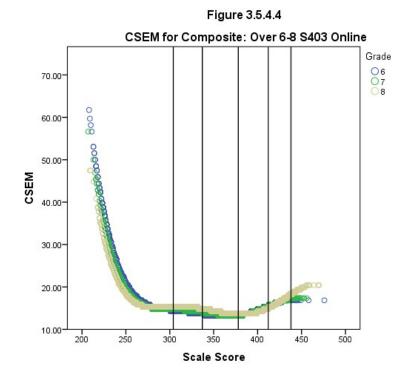




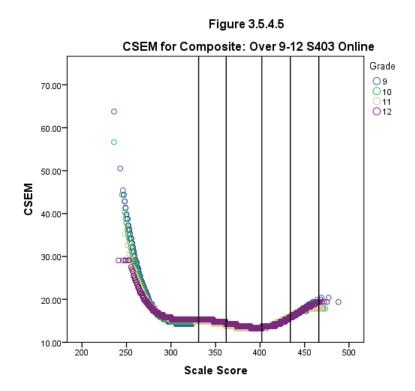
## 3.5.4.3 Grades 4-5



3.5.4.4 Grades 6-8



#### 3.5.4.5 Grades 9-12



# 4. Annual Updates of Validity Evidence

According to the *Standards for Educational and Psychological Testing* (AERA, APA, NCME, 2014), validity is the degree to which all the accumulated evidence supports the intended interpretation of test scores for the proposed use.

Particular interpretations for specified uses begin by specifying the construct the test is intended to measure. Validity is the degree to which all the accumulated evidence supports the intended interpretation of the test scores for the proposed use. Rather than referring to distinct types of validity, the *Standards* refer to types of validity evidence.

According to the *Standards* the evidence can be based on 1) test content, 2) response processes, 3) internal structure, and 4) relations to other variables.

# 4.1. Standards

# 4.1.1. Test content

Important validity evidence can be obtained from an analysis of the relationship between the content of a test and the construct it is intended to measure. Test content refers to the themes, wording, and format of the items, tasks, or questions on a test. Administration and scoring may also be relevant to content-based evidence. Evidence based on test content can include logical or empirical analyses of the adequacy with which the test content represents the content domain and of the relevance of the content domain to the proposed interpretation of test scores. Evidence based on test content can also come from expert judgement of the relationship between parts of the test and content.

## 4.1.2. Response processes

Theoretical and empirical analyses of the response processes of test takers can provide evidence concerning the fit between the construct and the detailed nature of the performance or response actually engaged in by test takers. Evidence based on response processes generally comes from analysis of individual responses. Evidence of response processes can contribute to answering questions about differences in meaning or interpretation of test scores across relevant sub-groups of test takers. Studies of response processes are not limited to the test taker. Assessment often relies on observers or judges to record and/or evaluate test takers' performances or products.

## 4.1.3. Internal structure

Analyses of the internal structure of a test can indicate the degree to which the relationships among the test items and test components conform to the construct on which the proposed test score interpretations are based. The conceptual framework for a test may imply a single dimension of behavior, or it may posit several components that are each expected to be homogeneous.

## 4.1.4. Relations to other structure

In many cases, the intended interpretation for a given use implies that the construct should be related to some other variables, and as a result, analysis of the relationship of the scores to variables external to the test provides another important source of validity evidence. Evidence about relations to other variables is also used to investigate questions of differential prediction for subgroups. In the test-criterion relationship the fundamental question is, how accurately do test scores predict criterion performance? Historically, two designs, often called predictive and concurrent, have been differentiated for evaluating test-criterion relationships. A predictive study indicates the strength of the relationship between test scores and criterion scores that are obtained at a later time. A concurrent study obtains test scores and criterion information at about the same time.

# 4.2. Annual validity studies

# 4.2.1. ACCESS for ELLs 2.0 Series 400 Construct Validity Study

Grant, R. & Kraninger, N. (2019). ACCESS for ELLs 2.0 Construct Validation Study - ACCESS for ELLs 2.0, Series 400 with 2015-2016 Data. WIDA Technical Report TR-2019-1 (unpublished).

A research study was conducted to examine the construct validity of the internal structures of the paper and online versions of ACCESS for the grade-level cluster forms within Grades 1-12 through construct validity techniques at the item level. The research questions were:

- 1. Are there 4 distinct, orthogonally related, first-order academic English language factors (Listening, Reading, Speaking, and Writing) underpinning English Learners' responses to Tiers A, B and C items within the grade-level cluster forms of the paper and online versions of the assessment?
- 2. If so, is there a 2nd-order, underlying factor (academic English language) orthogonally related to each first-order factor within each tier?

Confirmatory factor analyses were used to investigate the first research question and structural equation modeling techniques were used to investigate the second question. All 33 models had satisfactory model fit statistics. The conclusion was that the ACCESS for ELLs 2.0, Series 400 assessment (online and paper) has an internal structure consistent with four academic English language domains (Listening, Reading, Writing and Speaking) and a second order underlying language factor (academic English language). This suggests that it is appropriate to report separate English language domain scores and an overall composite score for the paper and online versions of the test.

# 4.2.2. WIDA Screener Online and WIDA ACCESS for ELLs: Examining the Relationship between Student Scores on Two Assessments

MacGregor, D., and Sahakyan, N. (in preparation). WIDA Screener Online and WIDA ACCESS for ELLs: Examining the Relationship Between Student Scores on Two Assessments. WIDA Technical Brief.

WIDA conducted a comparability study between WIDA Online Screener (hereafter Screener) and WIDA ACCESS (hereafter ACCESS). The purpose of the study was to understand to what extent scores on Screener predict scores on ACCESS, and how that relationship is potentially affected by several covariates, such as grade level, time between tests, and IEP status.

The results of this analysis show that Screener scores are highly correlated with and strongly predictive of ACCESS scores controlling for individual-level and institutional factors. Controlling for all of the above-mentioned factors, a one-point increase in the Screener Overall Composite Scale Score is associated with about a 0.70 point increase in the ACCESS Overall Composite Scale. Students with special needs score about 8 scale score points lower on ACCESS, compared to non-IEP students. Hispanic ELs score about 5 points below non-Hispanics, while female ELs score about 2.3 scale score points higher compared to their male counterparts. Finally, parameter estimates indicate that in addition to individual-level covariates, there are statistically significant grade, school, district and state effects; however, the predictive relationship between the two tests is not altered when these factors are accounted for.

These results provide evidence for the predictive validity of Screener for schools in the WIDA Consortium. The stable and strong predictive relationship between Screener and ACCESS Overall composite scores suggests that schools can confidently use the WIDA Screener Overall composite score when making placement decisions for ELLs. In addition, they provide validity evidence for the use of Screener as an identification tool for students in the WIDA Consortium.

# 4.2.3. 2018 ACCESS for ELLs 2.0 Speaking Study

Bishop, K., Read, S., Gocer-Sahin, S., and Akanda, M. (2019). *ACCESS for ELLs Speaking study*. WIDA Technical Report.

Although the amount of score difference varied year to year, in the domain of Speaking, paper scores have been consistently higher than online counterpart. The purpose of this study was to investigate potential differences in the test-taking and scoring procedures between the paper Speaking test and the online Speaking test. The results of this study are related to content validity since it explores possible reasons of differences among different administration and scoring procedures (AERA, APA & NCME, 2014) and evidence based on response processes.

In this study a WIDA researcher used the Speaking scores of ACCESS 401 population data. Data was collected from IL and FL. The WIDA researcher went to each school site to set up the

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speaking test sessions and met teachers to administer and score the test. The student's entire testing session and spoken responses were audio recorded by the WIDA researcher.

A quantitative and qualitative analysis was conducted. As the first step of the quantitative analysis, descriptive statistics such as raw score distributions, means across states, tiers, and raters were calculated. Second, to explore the rater effects of test administrative modes, Patz's (1996) hierarchical rater model (HRM) for polytomous Speaking rating data scored by multiple raters to scale examinees and items was applied to model aspects of consensus among raters, and to model individual rater severity and consistency effects (Patz, Junker, Johnson, and Mariano, 2002).

Qualitative analysis was conducted in four steps.

- 1) Interviews: After the WIDA researcher recorded students' Paper speaking test responses, we interviewed paper raters for their reasoning of scores. For online raters, the interview questions were sent to them and after their scorings were done, they typed their answers to the survey questionnaire document.
- 2) Categorizing interviews and observations: Based on interviews and the observations from administering tests and testing environment, the researcher categorized the interview comments into themes.
- 3) FL score comparison: one WIDA researcher, a rater trainer in FL scored students' responses as she was observing the paper testing. The WIDA researcher's scores and FL local raters' scores and online raters' score in FL were compared.
- 4) Score difference examination: two WIDA researchers examined paper and online ratings where there were score differences for 50 tasks to explore possible reasons of score differences.

The quantitative analysis results, HRM results, showed us that online raters are more consistent in assigning the same score to work of the same quality than paper raters. Tier B/C is more difficult than Tier A. Interestingly, although number of ideal scoring is three for paper raters for tier A, it is six for tier B/C. Similar to paper raters, in tier A, number of ideal scoring of online raters is seven, however it is eight for tier B/C. Although there isn't much change for online raters, in general it can be said that when test becomes more difficult, raters become more reliable in scoring.

Based on the local observations and rater reliability results, the WIDA Researcher has identified a need for additional clarification of the various aspects of the Speaking domain that should be provided in local and online trainings. It can be said that there is no one reason to give a high or low score. However, WIDA Researcher observed that, word choice was overlooked as sophistication. Even if sophistication was not present in the answer, online raters scored 3. Even though one of three criteria was missing, both raters still gave score 3 no matter which criterion is missing.

It was also observed that sometimes teacher prompting occurred, but they were within legitimate promoting options according to test administrator manual. Occasionally some prompting was very guided and specific, but student answers did not get more sophisticated. Teacher-prompted answers did not always lead to higher scores by paper raters. Some paper raters paid more attention to criteria outside of the rubric such as "complete sentences" and scored lowered. Interpretation of Nina model to the rubric description is an issue. For example, for P3 or P5 questions, Nina model answer has detailed explanations. It is not clear whether this explanation is referring to sophistication level in the rubric.

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