Data Use Professional Development Series

201

Day 6

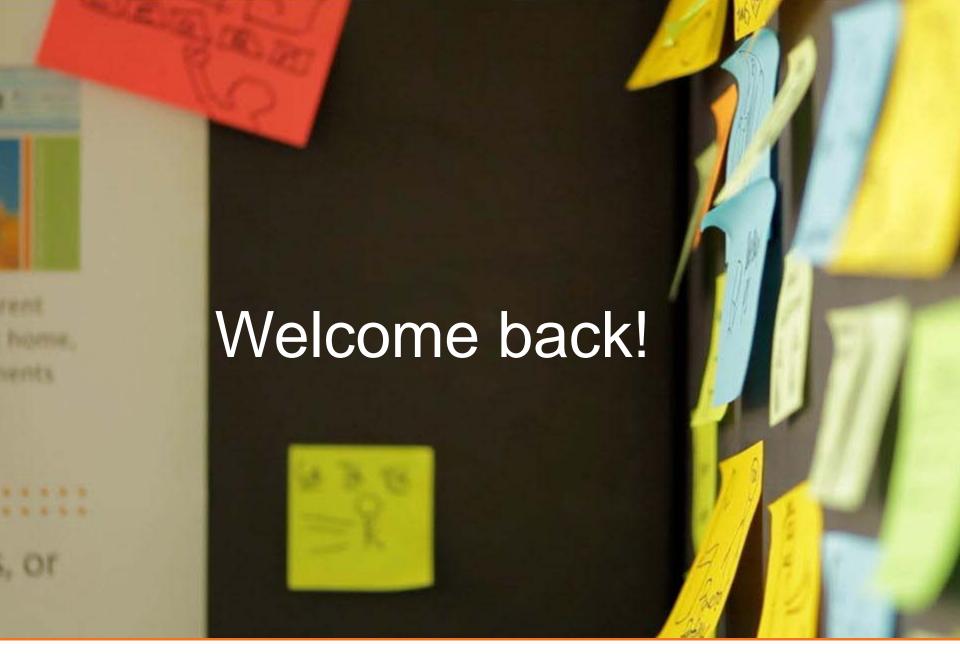


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Agenda

Today

Welcome/Overview

Implementation Progress

Correlation/Causation

Triangulation

Effort/Impact

Break

Data Questioning

Assessment Literacy

Lunch

Evaluating Assessments

Data Conversations with Students

Using Data to Create Flexible Small Groups for Differentiation

Break

Aggregate Data

Implementation Planning

Wrap-Up/Evaluations



Objectives

By the end of day 6, SDLTs will be able to:

- Identify impacts of their Data Use implementation.
- Employ the data analysis techniques of correlation and triangulation.
- Use Effort/Impact Matrix to prioritize which strategies to pursue.
- Articulate questions appropriate to various data sources.
- Evaluate assessment items for alignment to standards and Depth of Knowledge.
- Engage in Data Conversations with students.
- Use data to create flexible small groups for differentiation.
- Articulate how aggregate and disaggregated data can be used in schools.
- Articulate a plan for ongoing Data Use implementation.



Implementation Progress

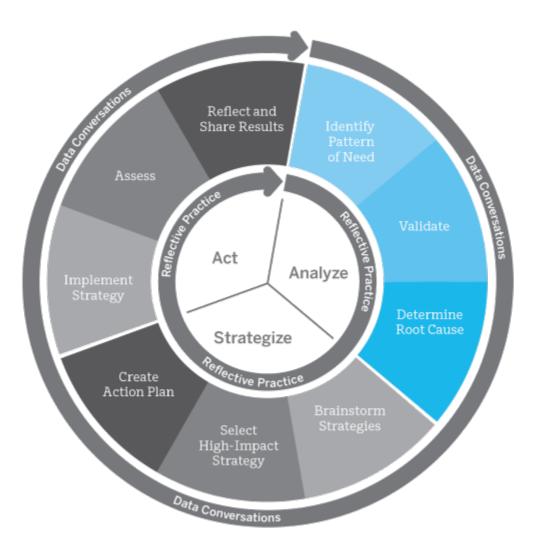
day

1 2 3 4 5 6 7 8 9 10

- What changes in collaboration have taken place at your school as a result of Data Use PD?
- What changes in school culture have taken place at your school as a result of Data Use PD?
- What role did the Day 5 visit have in advancing data use with teachers?



Cycle of Inquiry





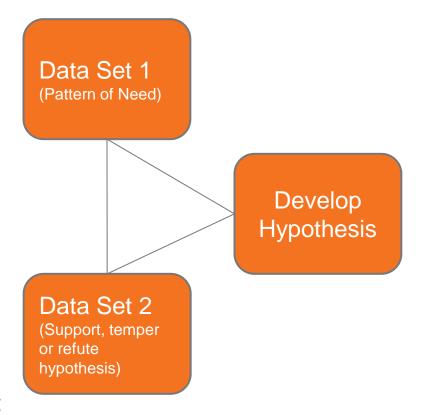




Triangulation: Validation Using Multiple Data Sources

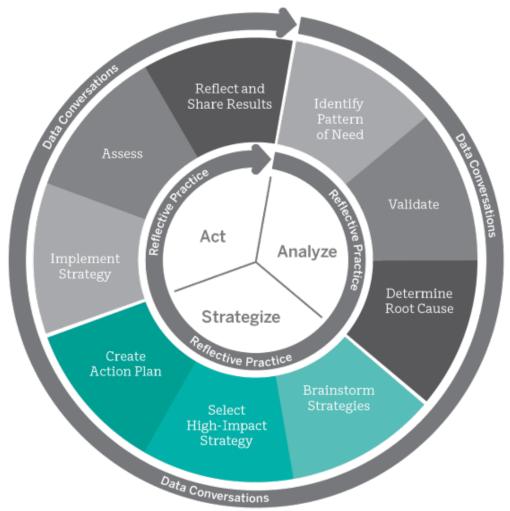
"Triangulation" is the process of using multiple data sources to address a particular question or problem and using evidence from each source to illuminate or temper evidence from the other sources. It also can be thought of as using each data source to test and confirm evidence from the other sources in order to arrive at well-justified conclusions about students' learning needs.

> -IES Practice Guide: Using Student Achievement Data to Support Instructional Decision Making



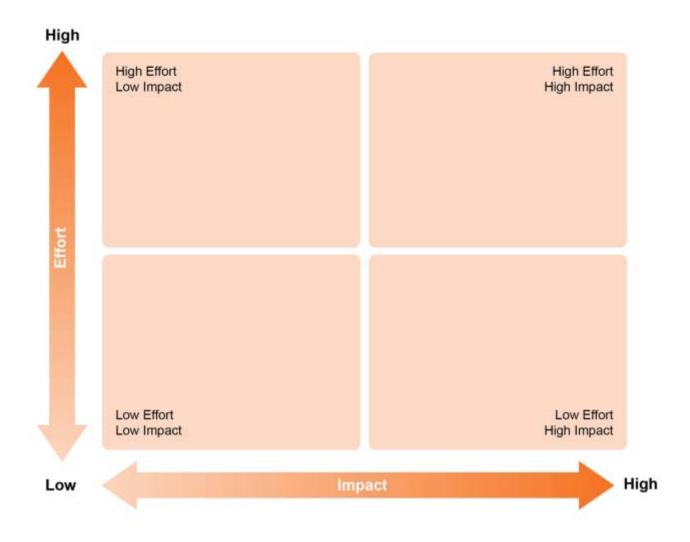


Cycle of Inquiry





Effort/Impact Matrix





Summary

- Impacts of the work look different at different schools.
- A correlation between two variables does not necessarily imply that one causes the other.
- The purpose of triangulation is to use multiple sources of data to help support or confirm evidence from another data source.
- Using an Effort/Impact Matrix can help us prioritize what strategies are worth pursuing.





Data Analysis Questions

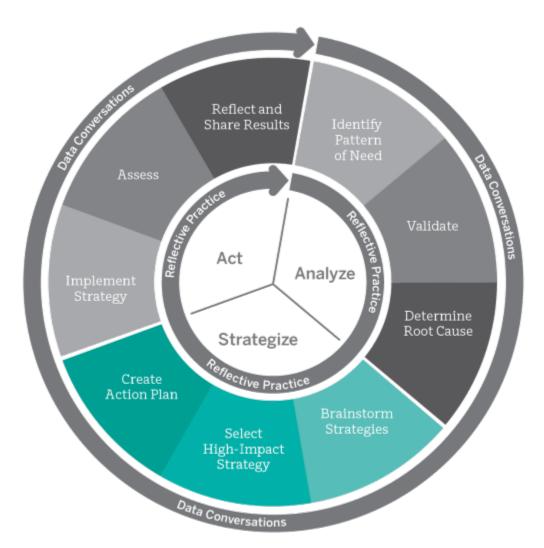
- What questions can you ask of this particular data set?
- Which of these questions can you ask of all data sources?



Applying Data Analysis Questions 才100m Information?j



Cycle of Inquiry





Assessment Literacy

- Evaluating Assessments
- Creating Assessments





Assessment Literacy

Summative:

Assessment OF learning

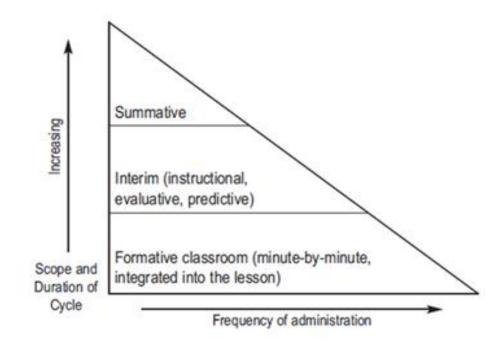
Interim:

Assessment OF and FOR learning

Formative:

Assessment FOR learning

Figure 1. Tiers of Assessment





Assessment Literacy Dimensions of Formative Assessment:

- Clearly articulated learning progressions
- Identified learning goals and success criteria
- Descriptive feedback
- Self- and peer-assessment
- Collaboration







Summary

- Understanding the best questions to ask of various data sources and types can help facilitate productive data meetings and Data Conversations.
- It is important for educators to plan how they will assess student learning while creating their Instructional Action Plan.







Evaluating Assessments

- Alignment to Standards
- Cognitive Complexity
- Data to Inform Instruction

Evaluating Assessment Items

RL.6.2 Key Ideas and Details: Determine a theme or central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments.

Item	Skill/concept measured	DOK	Part/All of standard?
What are the themes of <i>Little Women</i> ?	Determine a theme or central idea of a text	2	Part
Write a brief plot summary of <i>Little Women</i> , explaining the themes revealed throughout the text using specific examples from the text.	Determine a theme or central idea of a text and how it is conveyed through particular details; provide a summary of the text	3	All



Evaluating Assessment Items

Cognitive Complexity: Webb's Depth of Knowledge

Level 1: Recall

• identify, state, list, define, recognize, use, measure

Level 2: Skill/Concept

• classify, organize, estimate, compare, infer, summarize

Level 3: Strategic Thinking

 generalize, draw a conclusion, support, hypothesize, investigate

Level 4: Extended Thinking

 make connections, synthesize, prove, analyze, design and carry out the project



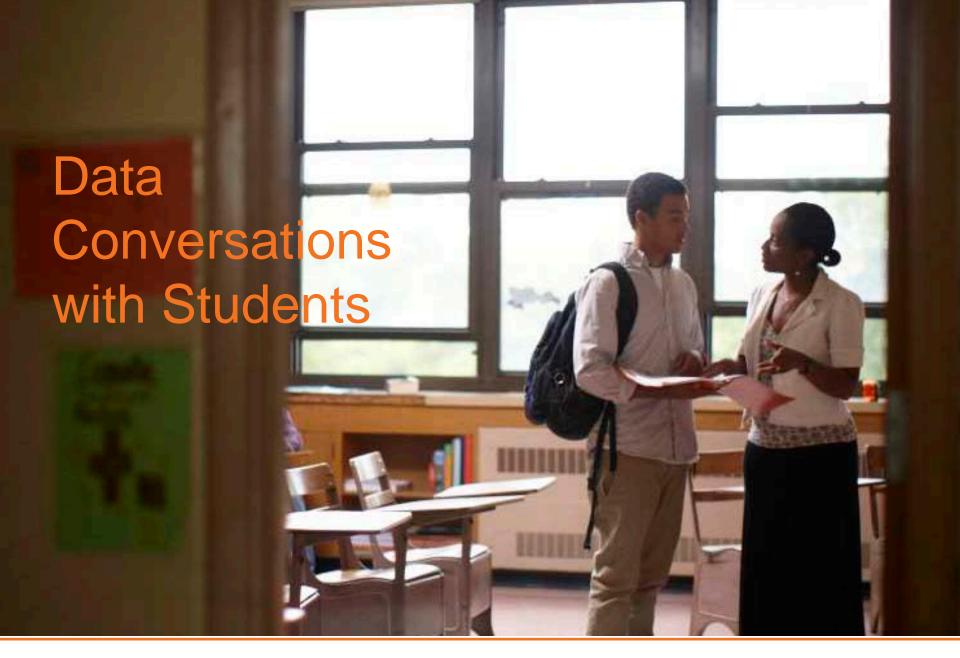
Evaluating Assessment Items Cognitive Complexity

Describe one cause of the War of 1812.

Describe the similarities between the War of 1812 and the American Civil War.

Describe the impact that the War of 1812 and the American Civil War have had on modern-day America.







Why Include Students?

"Students are motivated to try harder, risk failure, and set higher standards for themselves when they are involved in setting goals and monitoring and evaluating their own performance."

(O'Neill, 2004)



Data Conversations with Students

You and Ms. Jackson both teach Antonio. In Ms. Jackson's class, Antonio demonstrates good behavior and is performing well academically. In your class, Antonio has become disruptive and his performance on weekly quizzes has declined over the last month.

What kind of Data Conversation could you have with Antonio?

What kinds of questions could you ask?

Planning for Student Data Conversations Using Assessment Data

- 1. Explain expectations and assessment criteria.
- 2. Provide feedback to students that is timely, specific, well-formatted, and constructive.
- 3. Provide tools that help students learn from feedback.
- 4. Use students' data analysis to guide instruction.

IES PRACTICE GUIDE:

Using Student Achievement Data to Support Instructional Decision Making



Data Conversations with Students: Goal Setting

- Use Student Goal Setting Sheets
- Plan your Data Conversation:
 - What is the purpose of the Data Conversation?
 - What is the first question you will ask?
- Ask questions using Positive Presumptions
 - Open-ended questions to promote thinking and reflection
- Guide students toward Goal Setting
- Paraphrase as you go

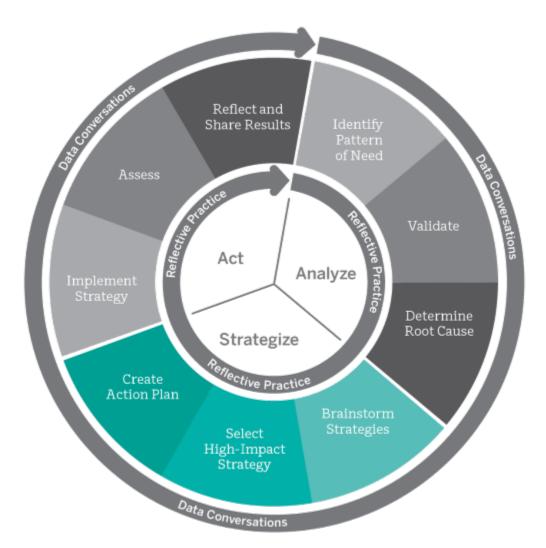


Planning for Student Data Conversations

- How can Student Data Conversations enhance what is already happening at your school?
- How can Student Data Conversations impact instructional decisions – for teachers and for students?
- What might interfere with having students analyze their own data and set learning goals?



Cycle of Inquiry

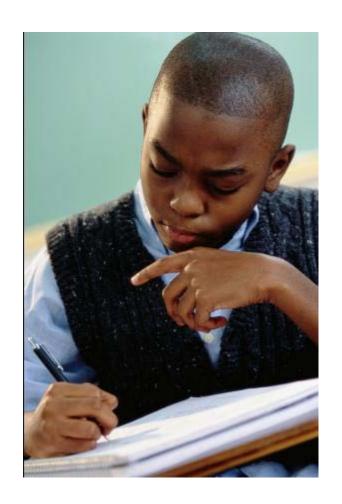




Using Data For Flexible Grouping

Types of flexible small groups:

- Short Term
- Long Term
- Spontaneous





Using Two Data Sets to Create Groups for Differentiation

9-Grid Matrix

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ă		Level 1	Level 2	Level 3
		ECVCI 1	LCVCI Z	Level
		Data Point B:		



Summary

- Assessments should align to standards and include varying levels of Depth of Knowledge.
- Considering the cognitive complexity of items can help educators provide more challenging tasks for students and give educators a more nuanced view of student achievement.
- Data Conversations can be used in various contexts and with multiple stakeholders, including students, to foster transparency.
- Differentiating for small groups of students can mean flexibly adjusting core instruction for clusters of students within a Cycle of Inquiry.





Aggregate Data

What is it?

"Student performance data reported at the largest, aggregate-group level, such as by grade level and content area for a school, district, or state." (p. 146)

Why is it important?

"It paints a broad brush picture of student achievement overall" and helps us understand student performance. (p. 146)

Love, N., Stiles, K.E., Mundry, S., & DiRanna, K. (2008). The Data Coach's Guide to Improving Learning for All Students



Disaggregated Data

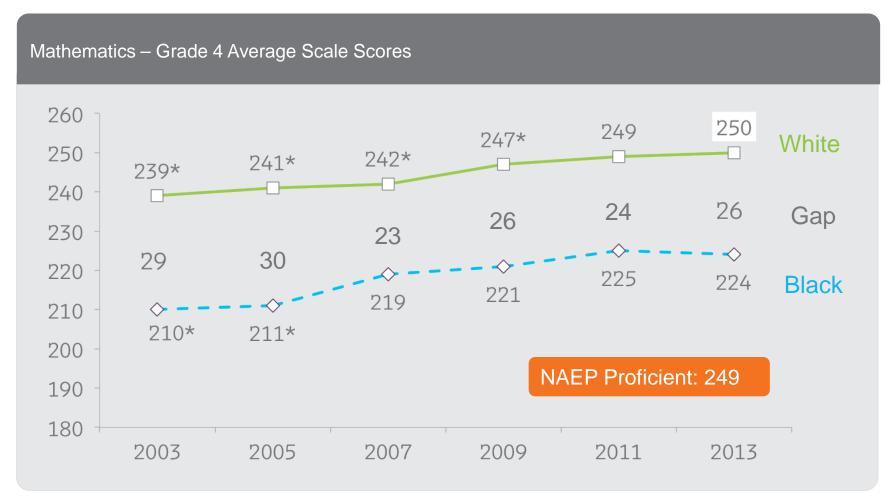
What is it?

- Disaggregated data is the presentation of data broken down into segments of the student population instead of the entire population.
- Some common ways to disaggregate data include by: gender, grade level, enrollment in special programs, ethnicity, school or class, socioeconomic status, year of entry into district.

Why is it important?

Disaggregation can help educators at all levels reveal critical issues that might otherwise remain invisible.

Disaggregated Data - RI NAEP Results



^{*} Significantly different (p<.05) from 2013







EWS Home

Aggregate Report

Disaggregated Report

User's Guide

More Info

State Admin

Aggregate Report

🔁 [Save Report as a PDF File]

The aggregate report below is displaying student level data on the following measures: Ontrack to Graduation percentage, Attendance Percentage, Number of Suspensions, Years Overage and NECAP math and reading scores.

Note: The indicators below were processed on 11/6/2013 3:01:34 AM. When generating the indicators, RIDE uses the most current data available to RIDE which has been submitted by your LEA.

Indicator	Low Risk	Some Risk	At Risk	High Risk
On Track Percentage	92.91% (944)	3,64% (37)	1.97% (20)	1.48% (15)
Attendance Percentage	92,52% (940)	2,56% (26)	1,48% (15)	3,44% (35)
Number of Suspensions	98.62% (1002)	1.08% (11)	0,20% (2)	0,20% (2)
Years Over Age	86,22% (876)	7.09% (72)	4.53% (48)	2.17% (22)
Math Score	76.08% (773)	12.80% (130)		11,12% (113)
Reading Score	88.48% (899)	7.78% (79)		3.74% (38)

Low Risk	Some Risk At Risk	LastName		On Track Percentage	Attendance Percentage	Number of Suspensions	Years Over-Age	Export Data to Excel	
SASID	FirstName		Student Grade					Math Score	Reading Score
			12	85	100	0	1.7	1142	1152
			g	37	90	0	147	845	857
			10	64	95	0	133	849	850
			12	76	80	0	1		1148
			10	89	100	0	0.7	861	860
			10	88	100	0	0.7	858	865
			10	95	100	0	-0.2	849	856
			9	93	100	0	+D.3	836	836
			10	74	90	0	0.5	1025	100
			9	87	100	0	-0.7	829	Ö
			12	94	100	0	0.4	1138	1144
			12	96	100	0	0.4	1146	1148
			12	98	100	0	0.1	1146	1171



EWS Home	Aggi	egate Report	Disaggregated Report	User's Guide	Mote 1	nio Stat	e Admin		
Disaggrega	te Report								
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Disaggregate Report

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Report results filtered by Grade(s); [9] Demographic(s) [Free/Reduced Lunch-N] [Show Filter Options]

The aggregate report below is displaying student level data on the following measures: Ontrack to Graduation percentage, Attendance Percentage, Number of Suspensions, Years Overage and NECAP math and reading scores.

Note: The indicators below were processed on 11/6/2013 3:01:34 AM. When generating the indicators, RIDE uses the most current data available to RIDE which has been submitted by your LEA.

Indicator	Low Risk	Some Risk	At Risk	High Risk
On Track Percentage	96.67% (203)	1.90% (4)	0.48% (1)	0.95% (2)
Attendance Percentage	91.90% (193)	4.76% (10)	0% (0)	3.33% (7)
Number of Suspensions	100% (210)	0% (0)	096 (0)	0% (0)
Years Over Age	67.14% (141)	13.81% (29)	14,29% (30)	4.76% (10)
Math Score	89,05% (187)	6.19% (13)		4.76% (10)
Reading Score	93.33% (196)	5,71% (12)		0.95% (2)



Disaggregate Report

[Save Report as a PDF File]

Report results filtered by Grade(s): [9] Demographic(s): [Free/Reduced Lunch-Y]
[Show Filter Options]

The aggregate report below is displaying student level data on the following measures: Ontrack to Graduation percentage, Attendance Percentage, Number of Suspensions, Years Overage and NECAP math and reading scores.

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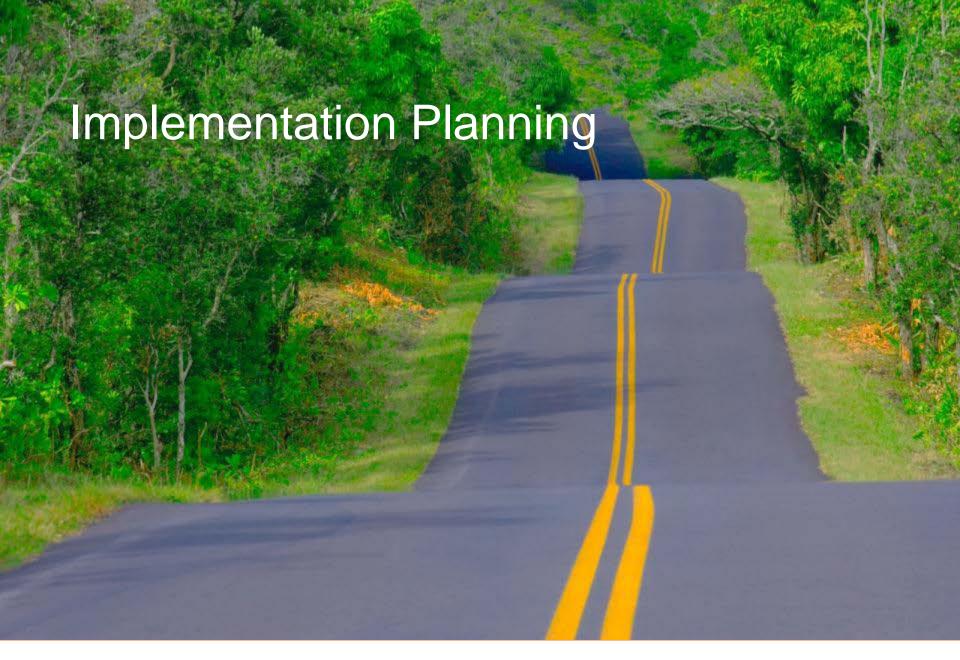
Indicator	cow Risk	Same Risk	At Risk	High Risk
On Track Percentage	65,85% (27)	17.07% (7)	14,63% (6)	2.44% (1)
Attendance Percentage	78.05% (32)	7,32% (3)	0% (0)	14,63% (6)
Number of Suspensions	100% (41)	0% (D)	0% (0)	0% (0)
Years Over Age	63,41% (26)	9.76% (4)	2,44% (1)	24.39% (10)
Math Score	43.90% (18)	34.15% (14)		21.95% (9)
Reading Score	73.17% (30)	19.51% (8)		7.32% (3)



Summary

- Aggregate data provides a look at the big picture, while disaggregated data helps educators drill down into sub-groups and refine Patterns of Need.
- It is important to be prepared for conversations about subgroups when disaggregating large data sets.







Days 6, 7 & 8

Day 4

Adaptive Change and Collaborative Structures

Inference Validation

Root Cause Analysis

Techniques for Data Conversations:

Paraphrasing

Planning Conversations

On-Site Visits

Today

Welcome/Overview

Implementation Progress

Correlation/Causation

Triangulation

Effort/Impact Matrix

Break

Data Questioning

Assessment Literacy

Lunch

Evaluating Assessments

Data Conversations with Students

Using Data to Create Flexible Small Groups for Differentiation

Break

Aggregate Data

Implementation Planning

Wrap-Up/Evaluations

Day 7: On-Site Visit

Agenda to be determined with your coach

Day 8: Partial list of topics

Visual Data Displays

Creating Assessment Items

Action Research and Sustainability Planning

Intersection Analysis

Data Conversations with

Parents

Revisiting Data Inventory







Day 6 Session Evaluation

www.surveymonkey.com/s/pdsessioneval





