

Grade Level Notes for CCSS Fraction Module 1: Aligning the Fraction Content Standards to Instruction

Grade 3:

Introduction:	Overview:	Number and Operations – Fractions:
<ul style="list-style-type: none"> • Understanding of fractions • Represent numbers equal to, less than, and greater than one • Understand unit fractions • Visual fraction models • Relative size of the whole • Comparing fractions with equal numerators or denominators using visual models and strategies 	<ul style="list-style-type: none"> • Understand fractions as numbers 	<ul style="list-style-type: none"> • Unit fractions • Fractions on a number line • Comparing fractions – same numerator, same denominator • Equivalent fractions – same size, same point, visual models • Whole numbers as fractions

Grade 4:

Introduction:	Overview:	Number and Operations – Fractions:
<ul style="list-style-type: none"> • Understand fraction equivalence • Generate and recognize equivalent fractions • Compose and decompose fractions • Multiply fractions by whole numbers 	<ul style="list-style-type: none"> • Extend understanding of fraction equivalence and order • Extend understanding of whole number operations to fractions • Understand and compare decimal notation for fractions 	<ul style="list-style-type: none"> • Use visual models to explain fraction equivalence • Compare fractions with different numerators/ denominators • Compare fractions using benchmarks • Understand fraction addition and subtraction as joining and separating • Decompose fractions in more than one way • Add and subtract mixed numbers with like denominators • Multiply a fraction by a whole number • Understand the connection between a unit fraction ($1/b$) and any fraction a/b • Solve word problems involving addition, subtraction, and multiplication of fractions • Use decimal notation for fractions with a denominator of 10 or 100 • Compare decimals to the hundredths

Grade 5:

Introduction:	Overview:	Number and Operations – Fractions:
<ul style="list-style-type: none">• Apply their understanding of fractions to add and subtract fractions with unlike denominators• Develop fluency with addition and subtraction• Understand and explain the procedures for multiplying and dividing fractions	<ul style="list-style-type: none">• Use equivalent fractions as a strategy for adding and subtracting• Apply understanding of whole number multiplying and dividing to fractions	<ul style="list-style-type: none">• Add and subtract fractions with unlike denominators by using equivalent fractions• Solve word problems involving addition, subtraction, multiplication and division.• Interpret a fraction as division• Multiply a fraction or a whole number by a fraction• Find the area of a rectangle with fractional side lengths• Interpret multiplication as scaling (resizing)• Connect the principle of fraction equivalence to the effect of multiplying a fraction by 1• Divide fractions by whole numbers and whole numbers by unit fractions