

Riverdeep Destination Math
Aligned to Alaska Math Grade Level Expectations
March 2007



Alaska Math Academic Content Standards	Destination Math
SIXTH GRADE	
Content Standard A: Mathematical facts, concepts, principles, and theories	
Numeration: Understand and use numeration	
Understanding Numbers: The student demonstrates conceptual understanding of fractions (proper or mixed numbers), decimals, percents (whole number), or integers by	
[6] N-1 reading, writing, ordering, or counting (M1.2.1)	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions • Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions • Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions • Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions • Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths • Module: Decimals Unit: Introduction Session: Ordering and Rounding • Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction • Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions • Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers • Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values • Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals • Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals • Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent • Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions • Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions
[6] N-2 identifying place value positions from thousandths to millions (M1.2.2)	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million • Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers • Module: Numbers and Number Sense Unit: Large and Small

1 *Destination Math does not align to all standards. Those standards are not shown on this document. This document is a correlation of Destination Math, to the Alaska Grade Level Expectations 2006.

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	<p>Numbers Session: Negative Whole Numbers</p> <p>Course VI:</p> <ul style="list-style-type: none"> Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids
[6] N-3 converting between whole numbers written in expanded notation and standard form (M1.2.4)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths
Understanding Numbers: The student demonstrates conceptual understanding of fractions, mixed numbers, or percents by modeling, identifying, describing, or illustrating	
[6] N-4 equal parts of a whole, a region, or a set (M1.2.4)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents <p>Course VI:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers
[6] N-5 equivalent fractions or mixed numbers (M1.2.4 & M3.2.5)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents <p>Course VI:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions
Understanding Meaning of Operations: The student demonstrates conceptual understanding of mathematical operations by	
[6] N-6 using models, explanations, number lines, or real-life situations describing or illustrating the relationships among the four basic operations (M1.2.3)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums Module: Operations with Numbers Unit: Multiplication and

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	<ul style="list-style-type: none"> • Division of Whole Numbers Session: Two-Digit Multipliers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors • Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders • Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions • Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions • Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions • Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property
<p>[6] N-7 using models, explanations, number lines, or real-life situations describing or illustrating the process of adding and subtracting fractions with different denominators (M1.2.5)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators • Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators • Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions
<p>Number Theory: The student demonstrates conceptual understanding of number theory by</p>	
<p>[6] N-8 describing or illustrating commutative, associative, inverse or identity properties of addition or multiplication using models or explanations (M1.2.7)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers
<p>[6] N-9 identifying or describing factors and multiples common to a pair or set of numbers (e.g., Least Common Multiple, L.C.M., or Greatest Common Factor, G.C.F.) (M1.2.6)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors • Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions • Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions • Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators • Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders <p>Course VI:</p>

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	<ul style="list-style-type: none"> Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators
[6] N-10 modeling (base 10 blocks) distributive property (M1.3.6)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals <p>Course VI:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property
Measurement: Select and use systems, units, and tools of measurement	
Measurable Attributes: The student demonstrates understanding of measurable attributes by	
[6] MEA-1 estimating length to the nearest eighth-inch or millimeter (M2.2.1)	<p>Course VI:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators
[6] MEA-2 identifying equivalent measures within systems English: length (inches, feet, yards, miles); weight (ounces, pounds, tons); volume (fluid ounces, cups, pints, quarts, gallons) Metric; length (millimeters, centimeters, meters, kilometers); volume (milliliters, liters) (M2.2.2)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data <p>Course VI:</p> <ul style="list-style-type: none"> Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10
Measurement Techniques: The student uses measurement techniques by	
[6] MEA-6 converting and using equivalent measurements within the same system (M2.2.2)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data <p>Course VI:</p> <ul style="list-style-type: none"> Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients
[6] MEA-7 measuring length to the nearest 1/8 of an inch or nearest millimeter (M2.2.1)	<p>Course VI:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators
Estimation and Computation: Perform basic arithmetic functions, make reasoned estimates, and select and use appropriate methods or tools	
Estimation: The student determines reasonable answers to real-life situations, paper/pencil computations, or calculator results by	
[6] E&C-1 identifying or using a variety of strategies (e.g., truncating, rounding to compatible numbers) to estimate the results of addition, subtraction or multiplication from thousandths to millions or simple division (M3.2.1)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long

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	<p>Division</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators • Module: Fractions Unit: Multiplication and Division Session: Finding Products • Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders • Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals • Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals • Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals • Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions • Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators • Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients
<p>Computation: The student accurately solves problems (including real-world situations) involving</p>	
<p>[6] E&C-2 recalling basic addition, subtraction, multiplication, and division facts efficiently (M3.2.2)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors • Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators • Module: Fractions Unit: Multiplication and Division Session: Finding Products • Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders • Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals • Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals
<p>[6] E&C-3 adding or subtracting whole numbers, fractions with unlike denominators to 12, or decimals to the hundredths place (M3.2.3)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers • Module: Fractions Unit: Addition and Subtraction Session:

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	<ul style="list-style-type: none"> Sums involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators • Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals • Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators • Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators • Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions • Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators • Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators • Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions • Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids • Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers • Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths
<p>[6] E & C-5 developing or interpreting scale models (scale factors such as 1 in. = 1 ft.) (M3.2.6)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Decimals Unit: Multiplying Decimals Session: Calculating Products
<p>Functions and Relationships: Represent, analyze, and use patterns, relations, and functions</p>	
<p>Describing Patterns and Functions: The student demonstrates conceptual understanding of functions, patterns, or sequences by</p>	
<p>[6] F&R-1 extending patterns (found in the number system, formed by multiples, factors, perfect squares up to 100, powers of ten), up to 10 terms, represented in tables, sequences, or in problem situations (M4.2.1)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators • Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10 • Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10
<p>[6] F&R-2 using rules to express the generalization of a pattern using words, lists, or tables, with or without variables (M4.2.4)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators

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	<ul style="list-style-type: none"> Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10 Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10
[6] F&R-3 identifying or applying multiplication or division patterns to find missing values in a function (M4.2.2)	<p>Course VI:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators
[6] F&R-4 using manipulatives, including a calculator, as tools when describing, extending, or representing a number sequence (M4.2.1 & M 4.2.3)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors <p>Course VI:</p> <ul style="list-style-type: none"> Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10 Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10
Modeling and Solving Equations and Inequalities: The student demonstrates algebraic thinking by	
[6] F&R-5 solving for an unknown represented by a letter, (addition, subtraction, multiplication, or division) (e.g., $3 \cdot n = 15$, $n - 5 = 12$) (M4.2.5)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers <p>Course VI:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions
Geometry: Construct, transform, and analyze geometric figures.	
Geometric Relationships: The student demonstrates an understanding of geometric relationships by	
[6] G-1 using the attributes and properties (sides and angles) of regular polygons to identify, classify, or compare regular or irregular polygons (M5.2.1)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Geometry Unit: Measurement Session: Triangles Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids <p>Course VI:</p> <ul style="list-style-type: none"> Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles
[6] G-2 identifying, comparing or describing attributes and properties of circles (radius, and diameter) (M5.2.2)	<p>Course VI:</p> <ul style="list-style-type: none"> Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder
[6] G-3 using the attributes and properties of prisms (vertices, length and alignment of edges, shape and number of bases, shape of faces) to model, identify, compare, or describe triangular or rectangular prisms	<p>Course VI:</p> <ul style="list-style-type: none"> Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism Module: Fundamentals of Geometry Unit: Volume and

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(M5.2.2)	<p>Surface Area Session: Calculating the Surface Area of a Right Triangular Prism</p> <ul style="list-style-type: none"> Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder
[6] G-4 identifying a 3-dimensional shape from the 2-dimensional drawing of the shape (M5.2.2)	<p>Course VI:</p> <ul style="list-style-type: none"> Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder
Similarity, Congruence, Symmetry, and Transformation of Shapes: The student demonstrates conceptual understanding of similarity, congruence, symmetry, or transformations of shapes by	
[6] G-5 identifying, creating, or drawing geometric figures that are congruent, similar, or symmetrical (M5.2.3)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids <p>Course VI:</p> <ul style="list-style-type: none"> Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons
[6] G-6 drawing or describing the results of transformations of polygons such as slides, turns, or flips (M5.2.5)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations
Perimeter, Area, Volume, and Surface Area: The student solves problems (including realworld situations) by using perimeter, area, or volume by	
[6] G-7 estimating or determining area or perimeter of polygons (parallelograms, trapezoids, triangles) using a key, ruler, or given measures (M5.2.4)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division Module: Geometry Unit: Measurement Session: Rectangles and Squares Module: Geometry Unit: Measurement Session: Triangles Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane <p>Course VI:</p> <ul style="list-style-type: none"> Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators
[6] G-8 estimating the area and circumference of a circle using a grid or	<p>Course VI:</p> <ul style="list-style-type: none"> Module: Decimals Unit: Essentials of Decimals Session:

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manipulatives and comparing the relationship of the diameter to the circumference (π) (M5.2.4 & M5.3.4)	Rounding Decimals Course V: <ul style="list-style-type: none"> Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula
[6] G-9 estimating or determining the volume of a right rectangular prism using manipulatives and formulas (e.g., cereal box, sand box, planter) (M5.3.4)	Course VI: <ul style="list-style-type: none"> Module: Decimals Unit: Multiplying Decimals Session: Calculating Products Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism Course V: <ul style="list-style-type: none"> Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Replacing Variables in a Formula
Position and Direction: The student demonstrates understanding of position and direction by	
[6] G-10 graphing a vertical or horizontal line segment (given whole number coordinates for its end points) on a coordinate grid or identifying its length or midpoint (e.g., using a map to trace a route and calculate distance) (M5.2.6 & M5.2.7)	Course III: <ul style="list-style-type: none"> Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane
Construction: The student demonstrates a conceptual understanding of geometric drawings or constructions by	
[6] G-11 drawing or measuring quadrilaterals with given dimensions or angles (M5.3.7)	Course III: <ul style="list-style-type: none"> Module: Geometry Unit: Measurement Session: Rectangles and Squares Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids
Statistics and Probability: Formulate questions, gather and interpret data, and make predictions	
Data Display: The student demonstrates an ability to classify and organize data by	
[6] S&P-1 designing an investigation and collecting, organizing, or displaying, using appropriate scale for data displays (tables, bar graphs, line graphs, or circle graphs), data in real-world problems (e.g., social studies, friends, or school), with whole numbers up to 100 (M6.2.1 & M6.2.2)	Course III: <ul style="list-style-type: none"> Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data
Analysis and Central Tendency: The student demonstrates an ability to analyze data (comparing, explaining, interpreting, evaluating; or drawing or justifying conclusions) by	
[6] S&P-2 using information from a variety of displays (tables, bar graphs, line graphs, circle graphs, or Venn diagrams) (M6.2.2)	Course III: <ul style="list-style-type: none"> Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors Module: Decimals Unit: Introduction Session: Ordering and Rounding Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data
[6] S&P-3 using mean, median, mode, or range (M6.2.3)	Course III: <ul style="list-style-type: none"> Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data
Probability: The student demonstrates a conceptual understanding of probability and counting techniques by	
[6] S&P-4 analyzing whether a game is	Course III:

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<p>mathematically fair or unfair by explaining the probability of all possible outcomes (M6.2.4)</p>	<ul style="list-style-type: none"> • Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance <p>Course V:</p> <ul style="list-style-type: none"> • Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability • Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel
<p>[6] S&P-5 solving or identifying solutions to problems involving possible combinations (e.g., if ice cream sundaes come in 3 flavors with 2 possible toppings, how many different sundaes can be made using only one flavor of ice cream with one topping?) (M6.2.5)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance <p>Course V:</p> <ul style="list-style-type: none"> • Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability • Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel • Module: Fundamentals of Probability Unit: Simple Probability Session: Determining Probabilities of Complementary Events
<p>Content Standards B, C, D, and E: Process skills and abilities</p>	
<p>Applying conceptual knowledge and skills as designated in all strands of Content Standard A by problem solving, communicating, reasoning, and making connections</p>	
<p>Problem Solving: Understand and be able to select and use a variety of problem-solving strategies: The student demonstrates an ability to problem solve by</p>	
<p>[6] PS-1 selecting, modifying, and applying appropriate problem solving strategies (e.g., graphing, Venn diagrams, tables, lists, working backwards, guess and check, or extend a pattern) and verifying results (M7.3.2)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors • Module: Decimals Unit: Introduction Session: Ordering and Rounding • Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents • Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication • Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions • Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers
<p>[6] PS-2 evaluating and interpreting solutions to problems (M7.3.3)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors • Module: Decimals Unit: Introduction Session: Ordering and Rounding • Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents • Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication • Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions • Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers

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Communication: Form and use appropriate methods to define and explain mathematical relationships: The student communicates his or her mathematical thinking by

[6] PS-3 representing problems using mathematical language including concrete, pictorial, and/or symbolic representation; or using appropriate vocabulary, symbols, and technology to explain mathematical solutions (M8.2.1, M8.2.2, & M8.2.3)

Course III:

- Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums
- Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers
- Module: Operations with Numbers Unit: The Integers Session: Integer Sums
- Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers
- Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers
- Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division
- Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors
- Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators
- Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators
- Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators
- Module: Fractions Unit: Multiplication and Division Session: Finding Products
- Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders
- Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals
- Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals
- Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals
- Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers

Course VI:

- Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers
- Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products
- Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication
- Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions
- Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses
- Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions
- Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators

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	<ul style="list-style-type: none"> • Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators • Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions • Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators • Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators • Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions • Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids • Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers • Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths • Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10 • Module: Decimals Unit: Multiplying Decimals Session: Calculating Products • Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism • Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers • Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients • Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10
Reasoning: Use logic and reason to solve mathematical problems: The student demonstrates an ability to use logic and reason by	
<p>[6] PS-4 using informal deductive reasoning in concrete contexts; or justifying answers and mathematical strategies using examples (M9.3.1 & M9.3.3)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors • Module: Decimals Unit: Introduction Session: Ordering and Rounding • Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents • Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication • Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions • Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers
Connections: Apply mathematical concepts and processes to situations within and outside of school. The student understands and applies mathematical skills and processes across the content strands by	
<p>[6] PS-5 using real-world contexts such as social studies, friends, school and community (M10.2.1, M10.2.2, & M10.3.2)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences

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	<p>Between Large Numbers</p> <ul style="list-style-type: none"> • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors • Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators • Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals • Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals • Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers • Module: Geometry Unit: Measurement Session: Triangles • Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids <p>Course VI:</p> <ul style="list-style-type: none"> • Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions • Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses
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