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

Alaska Math Academic Content Standards	Destination Math
SEVENTH GRADE	
Content Standard A: Mathematical facts, concepts, principles, and theories	
Numeration: Understand and use numeration	
Understanding Numbers: The student demonstrates understanding of rational numbers (fractions, decimals, percents, or integers) by	
[7] N-1 ordering rational numbers (M1.3.1)	**Course III:** • Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers • Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions • Module: Decimals Unit: Introduction Session: Ordering and Rounding **Course VI:** • Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals • Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions • Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Exploring the Number Line and Absolute Value
[7] N-2 modeling (place value blocks) or identifying place value positions of whole numbers and decimals (M1.3.2)	**Course III:** • 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 Numbers Session: Negative Whole Numbers **Course VI:** • 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
[7] N-3 converting between expanded notation (multiples of ten) and standard form for decimal numbers (M1.3.3)	**Course III:** • 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 understanding of positive fractions, decimals, or percents by	
[7] N-4 identifying or representing equivalents of numbers (M1.3.4 & M3.3.5)	**Course VI:** • Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions

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	• 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 **Course V:** • Module: Ratio & Proportion Unit: Ratio Session: Defining Ratio • Module: Ratio & Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions & Decimals • Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion • Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios
Understanding Meaning of Operations: The student demonstrates conceptual understanding of mathematical operations by	
[7] N-5 using models, explanations, number lines, real-life situations, describing or illustrating the effects of arithmetic operations on rational numbers (fractions, decimals) (M1.2.3)	**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: 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 • 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

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	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 • Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions • Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property • Module: Integers and Order of Operations Unit: Order of Operations Session: Using Grouping Symbols
Number Theory: The student demonstrates conceptual understanding of number theory by	
[7] N-6 using commutative, associative, inverse, or identity properties with rational numbers (M1.3.6)	**Course III:** • 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: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number 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: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions **Course V:** • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms
[7] N-7 applying rules of divisibility to whole numbers (M1.3.5)	**Course III:** • 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
[7] N-8 identifying prime and composite numbers (M1.3.5)	**Course III:** • Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers
[7] N-9 using distributive property with rational numbers (M1.3.6)	**Course VI:** • Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication • Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property • Module: Integers and Order of Operations Unit: Order of Operations Session: Using Grouping Symbols **Course V:** • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms • Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions
Measurement: Select and use systems, units, and tools of measurement	
Measurable Attributes: The student demonstrates understanding of measurable attributes by	
[7] MEA-1 estimating length to the nearest sixteenth of an inch or millimeter, volume to	**Course V:** • Module: Fundamentals of Geometry Unit: Geometry

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the nearest cubic centimeter or milliliter or angle to the nearest 30 degrees (M2.3.1)	Fundamentals Session: Naming and Measuring Angles • Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles
[7] MEA-2 identifying or using equivalent English (square inches, square feet, square yards) or metric systems (square centimeters, square meters) (M2.3.2)	**Course VI:** • Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators • Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators **Course V:** • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle • Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides • Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle • 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
Measurement Techniques: The student uses measurement techniques by	
[7] MEA-3 applying a given scale factor to find missing dimensions of similar figures (M2.3.4)	**Course VI:** • Module: Decimals Unit: Multiplying Decimals Session: Calculating Products
[7] MEA-5 accurately measuring a given angle using a protractor to the nearest plus or minus 2 degrees (M2.3.1)	**Course III:** • Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles **Course V:** • Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles • Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles • Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles
Estimation and Computation: Perform basic arithmetic functions, make reasoned estimates, and select and use appropriate methods or tools	
Estimation: The student solves problems (including real world situations) using estimation by	
[7] E&C-1 identifying or using a variety of strategies, including truncating, rounding, front-end estimation, compatible numbers, to check for reasonableness of solutions (M3.3.1)	**Course VI:** • Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication • Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions • Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators • Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions • Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers • Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients

[7] E & C 2 comparing results of different strategies (M3.3.1)	**Course VI:** • 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
Computation: The student accurately solves problems (including real-world situations) involving	
[7] E&C-3 adding or subtracting fractions or mixed numbers with unlike denominators, or decimals to the thousandths place (M3.3.3)	**Course VI:** • 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 Unlike Denominators • Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions
[7] E & C-4 multiplying or dividing decimals to hundredths, or multiplying or dividing by powers of ten, or multiplying or dividing fractions or mixed numbers (M3.3.4)	**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: 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
[7] E&C-5 converting between equivalent fractions, terminating decimals, or percents (10% = 1/10 = 0.1) (M3.3.5)	**Course VI:** • 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: Expressing Percents as Proper Fractions • Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper

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	Fractions • Module: Percents Unit: Finding Percents of Quantities Session: Expressing Ratios as Percents
[7] E&C-6 solving proportions using a given scale (M3.3.6)	**Course V:** • Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion • Module: Ratio & Proportion Unit: Proportion Session: Solving for a Variable in a Proportion
Functions and Relationships: Represent, analyze, and use patterns, relations, and function	
Describing Patterns and Functions: The student demonstrates conceptual understanding of functions, patterns, or sequences including those represented in real world situations by	
[7] F&R-1 describing or extending patterns (linear), up to ten terms, represented in tables, sequences, or in problem situations (M4.3.1)	**Course VI:** • 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
[7] F&R-2 generalizing relationships (linear) using a table of ordered pairs, a function, or an equation (M4.3.4)	**Course V:** • Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships • Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations • Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations
[7] F&R-3 describing in words how a change in one variable in a formula affects the remaining variables (how changing the length affects the area of a quadrilateral) (M4.3.2)	**Course III:** • Module: Geometry Unit: Measurement Session: Rectangles and Squares **Course V:** • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle
Modeling and Solving Equations and Inequalities: The student demonstrates algebraic thinking by	
[7] F&R-5 evaluating algebraic expressions (M4.3.5)	**Course V:** • Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables • Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Identifying Components of Algebraic Expressions • Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Replacing Variables in a Formula • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution
[7] F&R-6 solving or identifying solutions to one-step linear equations of the form x ± a=b or ax=b, where a and b are whole numbers, translating a story problem into an equation of similar form, or translating a story problem into an equation of similar form and solving it (M4.3.5)	**Course V:** • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution • Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations • Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations

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Geometry: Construct, transform, and analyze geometric figures	
Geometric Relationships: The student demonstrates an understanding of geometric relationships by	
[7] G-1 using the attributes and properties of polygons (diagonals, number of sides and angles) to identify and classify regular or irregular polygons (M5.3.1)	**Course V:** • Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides • Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles
[7] G-2 using the attributes and properties of prisms (vertices, length and alignment of edges, shape and number of bases, shape of faces) to identify and describe triangular or rectangular pyramids (M5.3.2)	**Course VI:** • Module: Decimals Unit: Multiplying Decimals Session: Calculating Products • Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism **Course V:** • 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
Transformation of Shapes: The student demonstrates conceptual understanding of similarity, congruence, symmetry, or transformations of shapes by	
[7] G-3 using a scale factor to solve problems involving similar shapes (e.g., scale drawings, maps) (M5.3.3)	**Course VI:** • Module: Decimals Unit: Multiplying Decimals Session: Calculating Products • Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism **Course V:** • 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
[7] G-4 drawing or describing the results of applying transformations such as translations, rotations, reflections, or dilations to figures (M5.3.5)	**Course III:** • Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations
Perimeter, Area, and Volume: The student solves problems (including real world situations) by	
[7] G-5 determining the volume of cubes and rectangular prisms (M5.3.4)	**Course VI:** • Module: Decimals Unit: Multiplying Decimals Session: Calculating Products • Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism
[7] G-7 determining the circumference of a circle (M5.3.4)	**Course VI:** • Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals **Course V:** • Module: Essentials of Algebra Unit: Solving Literal Equations

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	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
Position and Direction: The student demonstrates understanding of position and direction by	
[7] G-8 graphing or identifying values of variables on a coordinate grid (M5.3.6)	**Course III:** • Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data • Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane • Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations
Construction: The student demonstrates a conceptual understanding of geometric drawings or constructions by	
[7] G-9 drawing or measuring polygons with given dimensions and angles or circles with given dimensions (M5.3.7)	**Course V:** • Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable • Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles • Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle
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	
[7] S&P-1 collecting, displaying, organizing, or explaining the classification of data in real-world problems (e.g., science or humanities, peers or community), using circle graphs, frequency distributions, stem and leaf, or scatter plots with appropriate scale (M6.3.1)	**Course VI:** • Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions **Course V:** • Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs • Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts • Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table • Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram • Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs
Analysis and Central Tendency: The student demonstrates an ability to analyze data (comparing, explaining, interpreting, evaluating or making predictions; or drawing or justifying conclusions) by	
[7] S&P-2 using information from a variety of displays (e.g., as found in graphical displays in newspapers and magazines) (M6.3.2)	**Course V:** • Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs • Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs • Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts
[7] S&P-3 determining range, mean, median, or mode (M6.3.3)	**Course V:** • Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median • Module: Fundamentals of Statistics Unit: The Mean, Median,

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	& Mode Session: Calculating the Mean, Median, & Mode
Probability: The student demonstrates a conceptual understanding of probability and counting techniques by	
[7] S&P-4 determining the experimental and theoretical probability of a simple event (M6.3.5)	**Course V:** • Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel
[7] S&P-5 using a systematic approach to finding sample spaces or to making predictions about the probability of independent events (M6.3.5)	**Course V:** • Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events • Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment
Content Standards B, C, D, and E: Process skills and abilities	
Applying conceptual knowledge and skills designated in all strands of Content Standard A by problem solving, communicating, reasoning, and making connections	
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	
[7] PS-1 selecting, modifying, and applying a variety of problem-solving strategies (e.g., working backwards, drawing a picture, Venn diagrams and verifying the results) (M7.3.2)	**Course VI:** • 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 **Course V:** • Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations • Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation • Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation • Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property
[7] PS-2 evaluating, interpreting, and justifying solutions to problems (M7.3.3)	**Course VI:** • 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 **Course V:** • Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations • Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation • Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation • Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property
Communication: Form and use appropriate methods to define and explain mathematical relationships: The student communicates his or her mathematical thinking by	

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[7] PS-3 representing mathematical problems numerically, graphically, and/or symbolically; or using appropriate vocabulary, symbols, or technology to explain, justify, and defend strategies and solutions (M8.3.1, M8.3.2, & M8.3.3)	**Course VI:** • 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 **Course V:** • Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations • Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation • Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation • Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property
Reasoning: Use logic and reason to solve mathematical problems: The student demonstrates an ability to use logic and reason by	
[7] PS-4 using informal deductive and inductive reasoning in concrete contexts or stating counterexamples to disprove statements; or justifying and defending the validity of mathematical strategies and solutions using examples (M9.3.1, M9.3.2, & M9.3.3)	**Course VI:** • 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 **Course V:** • Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations • Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation • Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation • Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property
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	
[7] PS-5 using real-world contexts such as science, humanities, peers, and community (M10.3.1 & M10.3.2)	**Course VI:** • Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions • Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses **Course V:** • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution • Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships

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	• Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions • Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations • Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations • Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation • Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation • Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula • Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable • Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation • Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides • Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle • Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles • 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

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