

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



| Alaska Math<br>Academic Content Standards   | Destination Math   |
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| <b>EIGHTH GRADE</b>   |  |
| <b>Content Standard A: Mathematical facts, concepts, principles, and theories</b>   |  |
| <b>Numeration: Understand and use numeration</b>  |  |
| <b>Understanding Numbers: The student demonstrates understanding of real numbers by</b>   |  |
| [8] N-1 ordering real numbers (M1.3.1)  | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions</li> <li>• Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions</li> <li>• Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers</li> <li>• Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals</li> <li>• Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions</li> </ul> |
| [8] N-2 distinguishing between a whole number in scientific notation and real numbers in standard form (M1.3.1)                                   | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers Using Scientific Notation</li> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Scientific Notation Session: Comparing Numbers in Scientific Notation</li> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers between 0 &amp; 1 in Scientific Notation</li> </ul>  |
| [8] N-3 converting between expanded notation (multiples of ten with exponents) and standard form (M1.3.3)   | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions</li> </ul> <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Radicals &amp; Pythagorean Theorem Session: Investigating Squares &amp; Square Roots</li> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Scientific Notation Session: Comparing Numbers in Scientific Notation</li> </ul>   |
| <b>Understanding Numbers: The student demonstrates understanding of rational numbers (fractions, decimals, or percents including integers) by</b> |  |
| [8] N-4 identifying, describing, or illustrating equivalent representations (M1.3.4 & M3.3.5)   | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions</li> <li>• Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers</li> <li>• Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number</li> <li>• Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms</li> <li>• Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions</li> </ul>  |

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|  | <ul style="list-style-type: none"> <li>• Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values</li> <li>• Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals</li> <li>• Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10</li> <li>• Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism</li> <li>• Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients</li> <li>• Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10</li> <li>• Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent</li> <li>• Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions</li> <li>• Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions</li> <li>• Module: Percents Unit: Finding Percents of Quantities Session: Finding Percents of a Whole</li> <li>• Module: Percents Unit: Finding Percents of Quantities Session: Expressing Ratios as Percents</li> <li>• Module: Percents Unit: Finding Percents of Quantities Session: Calculating the Whole from a Part and a Percent</li> </ul> |
| <p>[8] N-5 expressing products of numbers using exponents (M1.3.1 &amp; M1.3.3)</p>  | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Radicals &amp; Pythagorean Theorem Session: Exploring the Pythagorean Theorem</li> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Radicals &amp; Pythagorean Theorem Session: Investigating Squares &amp; Square Roots</li> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers Using Scientific Notation</li> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Scientific Notation Session: Comparing Numbers in Scientific Notation</li> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers between 0 &amp; 1 in Scientific Notation</li> </ul>   |
| <p><b>Understanding Meaning of Operations: The student demonstrates conceptual understanding of mathematical operations by</b></p>   |  |
| <p>[8] N-6 using models, explanations, number lines, real-life situations, describing or illustrating the effects of arithmetic operations on rational numbers (percents) (M1.2.3)</p>             | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Increases</li> <li>• Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Decreases</li> <li>• Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Simple Interest</li> </ul>  |
| <p>[8] N-7 using models, explanations, number lines, real-life situations, describing or illustrating the use of inverse operations (addition/subtraction or multiplication/division) (M1.2.3)</p> | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions</li> <li>• Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses</li> <li>• Module: Fractions Unit: Dividing Fractions Session: Solving</li> </ul>   |

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|   | <ul style="list-style-type: none"> <li>Missing Value Problems when Dividing Fractions</li> <li>Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions</li> <li>Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions</li> <li>Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Representing the Multiplication of Signed Numbers</li> </ul> |
| <b>Number Theory: The student demonstrates conceptual understanding of number theory by</b>   |   |
| [8] N-8 applying the rules for order of operations to rational numbers (M1.3.5)   | <b>Course VI:</b> <ul style="list-style-type: none"> <li>Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions</li> <li>Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property</li> <li>Module: Integers and Order of Operations Unit: Order of Operations Session: Using Grouping Symbols</li> </ul>  |
| [8] N-10 using distributive property with real numbers (M1.3.6)   | <b>Course VI:</b> <ul style="list-style-type: none"> <li>Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication</li> <li>Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property</li> <li>Module: Integers and Order of Operations Unit: Order of Operations Session: Using Grouping Symbols</li> </ul>   |
| <b>Measurement: Select and use systems, units, and tools of measurement</b>   |   |
| <b>Measurable Attributes: The student demonstrates understanding of measurable attributes by</b>  |   |
| [8] MEA-1 converting measurements within the same system (English or metric) (M2.3.2)   | <b>Course VI:</b> <ul style="list-style-type: none"> <li>Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10</li> </ul>  |
| <b>Measurement Techniques: The student uses measurement techniques by</b>   |   |
| [8] MEA-2 using scale drawings involving indirect measurement (determining the scale factor and applying it to find missing dimension) (M2.3.4) | <b>Course VI:</b> <ul style="list-style-type: none"> <li>Module: Decimals Unit: Multiplying Decimals Session: Calculating Products</li> </ul>   |
| [8] MEA-3 modeling the conversion within the same system (M2.3.2)   | <b>Course VI:</b> <ul style="list-style-type: none"> <li>Module: Decimals Unit: Multiplying Decimals Session: Calculating Products</li> </ul>   |
| <b>Estimation and Computation: Perform basic arithmetic functions, make reasoned estimates, and select and use appropriate methods or tools</b> |   |
| <b>Estimation: The student solves problems (including real world situations) using estimation by</b>  |   |
| [8] E&C-1 applying and assessing the appropriateness of a variety of estimation strategies (M3.3.1)   | <b>Course VI:</b> <ul style="list-style-type: none"> <li>Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions</li> <li>Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators</li> <li>Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids</li> <li>Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients</li> </ul>   |
| <b>Computation: The student accurately solves problems (including real-world situations) involving</b>  |   |
| [8] E&C-2 adding, subtracting, multiplying or dividing integers or positive rational numbers (M3.3.3 & M3.3.4)                                  | <b>Course VI:</b> <ul style="list-style-type: none"> <li>Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Exploring the Number Line and Absolute Value</li> <li>Module: Integers and Order of Operations Unit: Adding and</li> </ul>   |

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|  | <p>Subtracting Signed Numbers Session: Adding with Absolute Value</p> <ul style="list-style-type: none"> <li>• Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Subtracting with Absolute Value</li> <li>• Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Products of Signed Numbers</li> <li>• Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Representing the Multiplication of Signed Numbers</li> <li>• Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Quotients Using Reciprocals</li> <li>• Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions</li> <li>• Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property</li> <li>• Module: Integers and Order of Operations Unit: Order of Operations Session: Using Grouping Symbols</li> </ul>  |
| <p>[8] E&amp;C-3 percents and percentages (e.g., tax, discount) (M3.3.3 &amp; M3.3.4)</p>    | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Increases</li> <li>• Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Decreases</li> <li>• Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Simple Interest</li> </ul>  |
| <p>[8] E&amp;C-4 converting between equivalent fractions, decimals, or percents (M3.3.5)</p> | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions</li> <li>• Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers</li> <li>• Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms</li> <li>• Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions</li> <li>• Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values</li> <li>• Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals</li> <li>• Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10</li> <li>• Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism</li> <li>• Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients</li> <li>• Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10</li> <li>• Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent</li> <li>• Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions</li> <li>• Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper</li> </ul> |

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|  | <p>Fractions</p> <ul style="list-style-type: none"> <li>Module: Percents Unit: Finding Percents of Quantities<br/>Session: Finding Percents of a Whole</li> <li>Module: Percents Unit: Finding Percents of Quantities<br/>Session: Expressing Ratios as Percents</li> <li>Module: Percents Unit: Finding Percents of Quantities<br/>Session: Calculating the Whole from a Part and a Percent</li> </ul>  |
| [8] E&C-5 ratio and proportion (M3.3.6)  | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>Module: Percents Unit: Finding Percents of Quantities<br/>Session: Finding Percents of a Whole</li> <li>Module: Percents Unit: Finding Percents of Quantities<br/>Session: Expressing Ratios as Percents</li> </ul> <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>Module: Ratio &amp; Proportion Unit: Ratio Session: Defining Ratio</li> <li>Module: Ratio &amp; Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions &amp; Decimals</li> <li>Module: Ratio &amp; Proportion Unit: Ratio Session: Forming Ratios between Unlike Quantities</li> <li>Module: Ratio &amp; Proportion Unit: Proportion Session: Defining a Proportion</li> </ul> |
| <b>Functions and Relationships: Represent, analyze, and use patterns, relations, and function</b>  |  |
| <b>Describing Patterns and Functions: The student demonstrates conceptual understanding of functions, patterns, or sequences including those represented in real world situations by</b>                       |  |
| [8] F&R-1 describing or extending patterns (linear), up to the nth term, represented in, tables, sequences, graphs, or in problem situations (M4.3.1)  | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators</li> <li>Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10</li> <li>Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10</li> </ul> <p><b>Algebra Course 1:</b></p> <ul style="list-style-type: none"> <li>Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions</li> </ul>  |
| [8] F&R-2 generalizing relationships (linear) using a table of ordered pairs, a graph, or an equation (M4.3.4)   | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships</li> <li>Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations</li> <li>Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations</li> </ul>  |
| [8] 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 quadrilaterals or volume of a rectangular prism) (M4.3.2) | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions &amp; Area of a Rectangle</li> </ul>  |
| [8] F&R-4 using a calculator as a tool when describing, extending, or representing patterns (M4.3.3)   | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>Module: Radicals &amp; Exponents Unit: Introduction to Scientific Notation Session: Comparing Numbers in Scientific Notation</li> </ul>   |
| <b>Modeling and Solving Equations and Inequalities: The student demonstrates algebraic thinking by</b>   |  |
| [8] F&R-5 translating a written phrase to an algebraic expression (M4.3.5)   | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships</li> <li>Module: Essentials of Algebra Unit: Variable on Both Sides</li> </ul>   |

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|  | of the Equation Session: Writing Equations  |
| [8] F&R-6 solving or identifying solutions to two-step linear equations of the form $ax + b = c$ , where a, b and c are rational numbers, and $a \neq 0$ , 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) | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation</li> <li>• Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values &amp; Solving an Equation</li> </ul> |
| <b>Geometry: Construct, transform, and analyze geometric figures</b>   |   |
| <b>Geometric Relationships: The student demonstrates an understanding of geometric relationships by</b>  |   |
| [8] G-1 using the attributes and properties of regular polygons to sketch regular or irregular polygons (M5.3.1)   | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides</li> <li>• Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles</li> </ul>   |
| [8] G-2 using the attributes and properties of solid figures (vertices, length and alignment of edges, shape and number of bases) to identify and describe cylinders and cones (M5.3.2)  | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values &amp; Solving an Equation</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume &amp; Surface Area of a Right Cylinder</li> </ul>   |
| [8] G-3 using two-dimensional nets to create three-dimensional objects (prisms and cylinders) (M5.3.2)   | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume &amp; Surface Area of a Right Cylinder</li> </ul>  |
| <b>Transformation of Shapes: The student demonstrates conceptual understanding of similarity, congruence, symmetry, or transformations of shapes by</b>  |   |
| [8] G-4 using proportionality to solve real-world problems involving similar shapes (e.g., two real-world objects casting shadows) (M5.3.3)  | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Ratio &amp; Proportion Unit: Similar Polygons Session: Defining Similarity</li> <li>• Module: Ratio &amp; Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios</li> <li>• Module: Ratio &amp; Proportion Unit: Similar Polygons Session: Setting up &amp; Solving Proportions in Similar Polygons</li> </ul>   |

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| <b>Perimeter, Area, and Volume: The student solves problems (including real world situations) by</b>  |  |
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| [8] G-6 determining the volume of right triangular prisms or cylinders (M5.3.4)   | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume &amp; Surface Area of a Right Cylinder</li> </ul> <p><b>Algebra Course 1:</b></p> <ul style="list-style-type: none"> <li>• Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations</li> </ul>  |
| [8] G-7 determining the surface area of cylinders or triangular prisms (M5.3.4)   | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume &amp; Surface Area of a Right Cylinder</li> </ul>  |
| [8] G-8 determining the circumference and area of a circle (M5.3.4)   | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals</li> </ul> <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume &amp; Surface Area of a Right Cylinder</li> <li>• Module: Ratio &amp; Proportion Unit: Proportion Session: Defining a Proportion</li> </ul> <p><b>Algebra Course 1:</b></p> <ul style="list-style-type: none"> <li>• Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions</li> </ul> |
| <b>Position and Direction: The student demonstrates understanding of position and direction by</b>  |  |
| [8] G-9 graphing or identifying relationships of variables on a coordinate plane (e.g., length/width, area/diameter, cost/pound) (M5.3.6)       | <p><b>Algebra Course 1:</b></p> <ul style="list-style-type: none"> <li>• Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope</li> <li>• Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts</li> <li>• Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line</li> <li>• Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line</li> <li>• Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions</li> </ul>   |
| <b>Construction: The student demonstrates a conceptual understanding of geometric drawings or constructions by</b>                              |  |
| [8] G-10 drawing, measuring, or constructing geometric figures (polygons, perpendicular bisectors, or perpendicular or parallel lines) (M5.3.7) | <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles</li> <li>• Module: Fundamentals of Geometry Unit: Triangles Session:</li> </ul>   |

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|  | <ul style="list-style-type: none"> <li>Classifying Triangles by Sides</li> <li>• Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles</li> <li>• Module: Ratio &amp; Proportion Unit: Similar Polygons Session: Defining Similarity</li> <li>• Module: Ratio &amp; Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios</li> </ul>   |
| <b>Statistics and Probability: Formulate questions, gather and interpret data, and make predictions</b>  |   |
| <b>Data Display: The student demonstrates an ability to classify and organize data by</b>  |   |
| [8] S&P-1 designing, collecting, organizing, displaying, or explaining the classification of data in real-world problems (e.g., science or humanities, peers or community), using histograms, scatter plots, or box and whisker plots with appropriate scale or with technology (M6.3.1) | <b>Course V:</b> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating &amp; Interpreting a Frequency Table</li> <li>• Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram</li> <li>• Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs</li> </ul> |
| <b>Analysis and Central Tendency: The student demonstrates an ability to analyze data (comparing, explaining, interpreting, evaluating, making predictions, or describing trends; or drawing, formulating, or justifying conclusions) by</b>   |   |
| [8] S&P-2 using information from a variety of displays or analyzing the validity of statistical conclusions found in the media (M6.3.2)  | <b>Algebra Course 1:</b> <ul style="list-style-type: none"> <li>• Module: Linear Inequalities Unit: Inequalities in One Variable Session: Solving Absolute Value Inequalities</li> </ul>  |
| [8] S&P-3 determining or justifying a choice of range, mean, median, or mode as the best representation of data for a practical situation (M6.3.3)   | <b>Course V:</b> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Statistics Unit: The Mean, Median, &amp; Mode Session: Defining the Mean &amp; Median</li> <li>• Module: Fundamentals of Statistics Unit: The Mean, Median, &amp; Mode Session: Defining the Mode</li> <li>• Module: Fundamentals of Statistics Unit: The Mean, Median, &amp; Mode Session: Calculating the Mean, Median, &amp; Mode</li> </ul>   |
| <b>Probability: The student demonstrates a conceptual understanding of probability and counting techniques by</b>  |   |
| [8] S&P-4 determining or comparing the experimental and/or theoretical probability of simple events (M6.3.5)   | <b>Course V:</b> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Probability Unit: Simple Probability Session: Defining &amp; Expressing Probability</li> <li>• Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel</li> <li>• Module: Fundamentals of Probability Unit: Simple Probability Session: Determining Probabilities of Complementary Events</li> </ul>                             |
| [8] S&P-5 using a systematic approach to finding sample spaces or to making predictions about the probability of independent events and using the information to solve real-world problems (M6.3.5)  | <b>Course V:</b> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events</li> <li>• Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment</li> </ul>   |
| <b>Content Standards B, C, D, and E: Process skills and abilities</b>  |   |
| <b>Applying conceptual knowledge and skills designated in all strands of Content Standard A by problem solving, communicating, reasoning, and making connections</b>   |   |
| <b>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</b>  |   |
| [8] PS-1 selecting, modifying, and applying  | <b>Course VI:</b>   |

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| <p>a variety of problem-solving strategies (e.g., inductive and deductive reasoning, Venn diagrams, making a simpler problem) and verifying the results (M7.3.2)</p>   | <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication</li> <li>• Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions</li> <li>• Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers</li> </ul> <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations</li> <li>• Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values &amp; Solving an Equation</li> <li>• Module: Ratio &amp; Proportion Unit: Proportion Session: Applying the Means/Extremes Property</li> </ul>                          |
| <p>[8] PS-2 evaluating, interpreting, and justifying solutions to problems (M7.3.3)</p>  | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication</li> <li>• Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions</li> <li>• Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers</li> </ul> <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations</li> <li>• Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values &amp; Solving an Equation</li> <li>• Module: Ratio &amp; Proportion Unit: Proportion Session: Applying the Means/Extremes Property</li> </ul> |
| <p><b>Communication: Form and use appropriate methods to define and explain mathematical relationships: The student communicates his or her mathematical thinking by</b></p>   |   |
| <p>[8] PS-3 representing mathematical problems numerically, graphically, and/or symbolically, translating among these alternative representations; or using appropriate vocabulary, symbols, or technology to explain, justify, and defend strategies and solutions (M8.3.1, M8.3.2, &amp; M8.3.3)</p> | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication</li> <li>• Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions</li> <li>• Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers</li> </ul> <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations</li> <li>• Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values &amp; Solving an Equation</li> <li>• Module: Ratio &amp; Proportion Unit: Proportion Session: Applying the Means/Extremes Property</li> </ul> |
| <p><b>Reasoning: Use logic and reason to solve mathematical problems: The student demonstrates an ability to use logic and reason by</b></p>   |   |

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| <p>[8] PS-4 generalizing from patterns of observations (inductive reasoning) about mathematical problems and testing using a logical verification (deductive reasoning); or justifying and defending the validity of mathematical strategies and solutions using examples and counterexamples (M9.3.1, M9.3.2, &amp; M9.3.3)</p> | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication</li> <li>• Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions</li> <li>• Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers</li> </ul> <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations</li> <li>• Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values &amp; Solving an Equation</li> <li>• Module: Ratio &amp; Proportion Unit: Proportion Session: Applying the Means/Extremes Property</li> </ul>   |
| <p><b>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</b></p>   |   |
| <p>[8] PS-5 using real-world contexts such as science, humanities, peers, community, and careers (M10.3.1 &amp; M10.4.2)</p>   | <p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions</li> <li>• Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses</li> </ul> <p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions &amp; Area of a Rectangle</li> <li>• Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms</li> <li>• Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution</li> <li>• Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships</li> <li>• Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions</li> <li>• Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations</li> <li>• Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations</li> <li>• Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation</li> <li>• Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable</li> <li>• Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values &amp; Solving an Equation</li> </ul> |

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|  | <ul style="list-style-type: none"> <li>• Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides</li> <li>• Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle</li> <li>• Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism</li> <li>• Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume &amp; Surface Area of a Right Cylinder</li> </ul> <p><b>Algebra Course 1:</b></p> <ul style="list-style-type: none"> <li>• Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions</li> <li>• Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations</li> <li>• Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations</li> <li>• Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs</li> <li>• Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope</li> <li>• Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts</li> <li>• Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line</li> <li>• Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection</li> <li>• Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable</li> <li>• Module: Linear Inequalities Unit: Inequalities in One Variable Session: Graphing Solutions on a Number Line</li> <li>• Module: Linear Inequalities Unit: Inequalities in One Variable Session: Solving Absolute Value Inequalities</li> <li>• Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Graphing Solutions on a Rectangular Coordinate Plane</li> <li>• Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing</li> </ul> |
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