

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



DESTINATION
Math®

Alaska Math Academic Content Standards	Destination Math
TENTH GRADE	
Content Standard A: Mathematical facts, concepts, principles, and theories	
Numeration: Understand and use numeration	
Understanding Numbers: The student demonstrates understanding of real numbers by	
[10] N-1 identifying their subsets (natural, whole, integers, rational, irrational) (M1.4.1)	<p>Course V:</p> <ul style="list-style-type: none"> • Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers • Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers Using Scientific Notation • Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Comparing Numbers in Scientific Notation • Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers between 0 & 1 in Scientific Notation <p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: The Real Number System Unit: Rational & Irrational Numbers Session: Defining the Real Numbers • Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals • Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function
[10] N-2 simplifying expressions with positive and negative exponents (M1.4.4 & M3.4.4)	<p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Working with Powers • Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Adding & Subtracting Polynomial Expressions • Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: Solving Radical Equations • Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: The Inverse of the Square Root Function • Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Operations • Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Functions • Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Equations
[10] N-3 expressing square roots in simplest radical form (M1.4.4 & M3.4.4)	<p>Course V:</p> <ul style="list-style-type: none"> • Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem <p>Algebra Course 2:</p>

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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	<ul style="list-style-type: none"> • Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals • Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square
Understanding Meaning of Operations: The student demonstrates conceptual understanding of mathematical operations by	
<p>[10] N-4 describing or illustrating the effects of arithmetic operations on real numbers (M1.4.3)</p>	<p>Course V:</p> <ul style="list-style-type: none"> • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms • Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions <p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers • Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations <p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals
<p>[10] N-5 describing or illustrating the use of inverse operations (cubing/cube root) (M1.4.3 & 1.4.5)</p>	<p>Course V:</p> <ul style="list-style-type: none"> • Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple 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: Rewriting a Formula in Terms of a Different Variable <p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations • Module: Linear Inequalities Unit: Inequalities in One Variable Session: Applying Inverse Operations • Module: Linear Inequalities Unit: Inequalities in One Variable Session: Graphing Solutions on a Number Line <p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: The Inverse of the Square

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Root Function	
Number Theory: The student demonstrates conceptual understanding of number theory by	
[10] N-7 identifying or applying commutative, identity, associative, inverse, or distributive properties to real numbers and variables (M1.4.5)	<p>Course V:</p> <ul style="list-style-type: none"> • Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms • Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions <p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers • Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations <p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals • Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Multiplying Polynomials • Module: Powers & Polynomials Unit: Factoring Polynomials Session: Finding Common Factors • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square
[10] N-8 identifying or writing the prime factorization of a variable expression using exponents (M1.4.4)	<p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Powers & Polynomials Unit: Factoring Polynomials Session: Finding Common Factors • Module: Powers & Polynomials Unit: Factoring Polynomials Session: Factoring Quadratic Trinomials • Module: Powers & Polynomials Unit: Factoring Polynomials Session: Special Cases
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	
[10] E&C-1 explaining why one strategy is more appropriate than another and determining why the estimation result is greater or less than the exact answer (M3.4.1)	<p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring & the Zero Product Theorem • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula
Computation: The student accurately solves problems (including real-world situations) involving	
[10] E&C-2 applying basic operations with real numbers using powers and scientific notation (M3.4.2 & M3.4.3)	<p>Course V:</p> <ul style="list-style-type: none"> • Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Comparing Numbers in Scientific Notation • Module: Radicals & Exponents Unit: Introduction to Scientific

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	<p>Notation Session: Writing Numbers between 0 & 1 in Scientific Notation</p> <p>Algebra Course 2:</p> <ul style="list-style-type: none"> Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Working with Powers
[10] E&C-3 solving problems involving percent increase or decrease (M3.4.5)	<p>Algebra Course 1:</p> <ul style="list-style-type: none"> Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations
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	
[10] F&R-1 describing or extending patterns (families of functions: linear, quadratic, absolute value), up to the nth term, represented in tables, sequences, graphs, or in problem situations (M4.4.1)	<p>Algebra Course 1:</p> <ul style="list-style-type: none"> Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable <p>Algebra Course 2:</p> <ul style="list-style-type: none"> Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: Solving Radical Equations Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: The Inverse of the Square Root Function Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Operations Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Functions Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Equations
[10] F&R-2 generalizing equations and inequalities (linear, quadratic, absolute value) using a table of ordered pairs or a graph (M4.4.4)	<p>Algebra Course 1:</p> <ul style="list-style-type: none"> Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line

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	<ul style="list-style-type: none"> • Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions • Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection • Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Graphing Solutions on a Rectangular Coordinate Plane • Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing
[10] F&R-3 describing in words how a change in one variable or constant in an equation affects the outcome of the equation (M4.3.2)	<p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection • Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable <p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals • Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function
[10] F&R-4 using a calculator as a tool when describing, extending, representing, or graphing patterns, linear or quadratic equations (M4.4.2)	<p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Graphing Parabolas • Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Analyzing Properties of Parabolas • Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Solving Quadratic Equations by Graphing
Modeling and Solving Equations and Inequalities: The student demonstrates algebraic thinking by	
[10] F&R-5 modeling (graphically or algebraically) or solving situations using systems of linear equations or inequalities (including real-world applications) (M4.4.3)	<p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection • Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines • Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable • Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable
[10] F&R-6 selecting and using the quadratic formula to solve problems (M4.4.2)	<p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula
[10] F&R-7 solving or identifying solutions to literal equations or formulas for a variable involving multi-steps (e.g., solve for h when $A = \frac{1}{2}h(b_1 + b_2)$) (M4.4.2)	<p>Course V:</p> <ul style="list-style-type: none"> • 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

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	<ul style="list-style-type: none"> • 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: 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 <p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations • Module: Linear Inequalities Unit: Inequalities in One Variable Session: Solving Absolute Value Inequalities
Geometry: Construct, transform, and analyze geometric figures	
Geometric Relationships: The student demonstrates an understanding of geometric relationships by	
<p>[10] G-1 identifying, analyzing, comparing, or using properties of plane figures: supplementary, complementary or vertical angles; angles created by parallel lines with a transversal; sum of interior or exterior angles of a polygon; central angles, chords, inscribed angles or arcs of a circle (M5.4.1)</p>	<p>Course V:</p> <ul style="list-style-type: none"> • 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: Geometry Fundamentals Session: Recognizing Congruent Angles • Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles
<p>[10] G-2 using isometric drawings to create two-dimensional drawings of three dimensional objects (shapes that are composites of rectangular right prisms) (M5.4.2)</p>	<p>Course V:</p> <ul style="list-style-type: none"> • 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: 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	
<p>[10] G-3 identifying congruent and similar figures using Euclidean geometry (e.g., constructions, coordinate geometry) (M5.4.3)</p>	<p>Course V:</p> <ul style="list-style-type: none"> • Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles

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Position and Direction: The student demonstrates understanding of position and direction when solving problems (including real-world situations) by	
[10] G-6 graphing a line segment on a coordinate grid and/or identifying its length or midpoint by using formulas (M5.4.5)	Algebra Course 1: <ul style="list-style-type: none"> Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs
[10] G-7 graphing a system of equations on a coordinate grid, identifying a solution, or determining their relationship (intersecting, parallel, perpendicular) (M5.4.5)	Algebra Course 1: <ul style="list-style-type: none"> Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable Algebra Course 2: <ul style="list-style-type: none"> Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Operations Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Functions Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Equations
Construction: The student demonstrates a conceptual understanding of geometric drawings or constructions by	
[10] G-8 drawing, measuring, or constructing geometric models of plane figures (containing parallel and/or perpendicular lines, angles, perpendicular bisectors, congruent angles, regular polygons) (M5.4.6)	Course V: <ul style="list-style-type: none"> Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles
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	
[10] S&P-1 designing, collecting, organizing, displaying, or explaining the classification of data in real-world problems (e.g., science or humanities, peers, community, or careers), using information from tables or graphs that display two or more sets of data or with technology (M6.4.1)	Algebra Course 2: <ul style="list-style-type: none"> Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
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	
[10] S&P-2 using information from a display to solve a problem or analyzing the validity of statistical conclusions (M6.4.1 & M6.4.4)	Course V: <ul style="list-style-type: none"> 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

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	<ul style="list-style-type: none"> Constructing Graphs Session: Interpreting Pie Charts • Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median • Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode • Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode • 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
[10] S&P-3 using and justifying range and measures of central tendency to determine the best representation of the data for a practical situation (M6.4.3)	<p>Course V:</p> <ul style="list-style-type: none"> • Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs • Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median • Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode • 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
[10] S&P-4 using a best fit line to describe trends and make predictions about data (M6.4.2)	<p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
Probability: The student demonstrates a conceptual understanding of probability and counting techniques by	
[10] S&P-5 explaining in words or identifying the difference between experimental and theoretical probability of independent or dependent events (M6.4.5)	<p>Course V:</p> <ul style="list-style-type: none"> • Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment
[10] S&P-6 analyzing data to make predictions about the probability of independent or dependent events as a basis for solving real-world problems (M6.4.5)	<p>Course V:</p> <ul style="list-style-type: none"> • 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 • Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Mutually Exclusive Events
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	

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<p>[10] PS-1 applying multi-step, integrated, mathematical problem-solving strategies (M7.4.2)</p>	<p>Course V:</p> <ul style="list-style-type: none"> • 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: Checking the Solution to an Equation • Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation • 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 <p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations • Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable • Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable • Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing <p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring & the Zero Product Theorem • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula • Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Operations
<p>[10] PS-2 verifying the answer by using an alternative strategy (M7.4.3)</p>	<p>Course V:</p> <ul style="list-style-type: none"> • 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

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	<p style="text-align: center;">Session: Substituting Values & Solving an Equation</p> <p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations • Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable • Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing <p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring & the Zero Product Theorem • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula • Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Operations
<p>Communication: Form and use appropriate methods to define and explain mathematical relationships: The student communicates his or her mathematical thinking by</p>	
<p>[10] PS-3 representing mathematical problems numerically, graphically, and/or symbolically communicating math ideas in writing; or using appropriate vocabulary, symbols, or technology to explain, justify, and defend strategies and solutions (M8.4.1, M8.4.2, & M8.4.3)</p>	<p>Course V:</p> <ul style="list-style-type: none"> • 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 <p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations • Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable • Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing <p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring & the Zero Product Theorem • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square • Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula • Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Operations

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Reasoning: Use logic and reason to solve mathematical problems: The student demonstrates an ability to use logic and reason by	
<p>[10] PS-4 using methods of proof including direct, indirect, and counter examples to validate conjectures (M9.4.3)</p>	<p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions • Module: Linear Inequalities Unit: Inequalities in One Variable Session: Applying Inverse Operations
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>[10] PS-5 using real-world contexts such as global issues and careers (M10.4.1 & M10.4.2)</p>	<p>Course V:</p> <ul style="list-style-type: none"> • 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 • 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

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	<p style="text-align: center;">Area of a Right Cylinder</p> <p>Algebra Course 1:</p> <ul style="list-style-type: none"> • Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations • Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations • Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs • Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope • Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts • Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line • Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection • Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable • Module: Linear Inequalities Unit: Inequalities in One Variable Session: Graphing Solutions on a Number Line • Module: Linear Inequalities Unit: Inequalities in One Variable Session: Solving Absolute Value Inequalities • Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Graphing Solutions on a Rectangular Coordinate Plane • Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing <p>Algebra Course 2:</p> <ul style="list-style-type: none"> • Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Working with Powers • Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Multiplying Polynomials • Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Graphing Parabolas • Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Analyzing Properties of Parabolas • Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Solving Quadratic Equations by Graphing • Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Equations • Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
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Riverdeep *Destination Math*
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