

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



Alaska Math Academic Content Standards	Destination Math
<b>NINTH 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>	
[9] N-1 converting between a rational number in scientific notation and standard form (M1.4.4 & M 3.4.4)	<b>Course V:</b> <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>
[9] N-2 equating different equivalent representations of the same exponential expression (e.g., $23 \cdot 25 = 28$ ) (M1.4.4 & M3.4.4)	<b>Course V:</b> <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 Radicals &amp; Pythagorean Theorem Session: Defining Irrational Numbers</li> </ul>
<b>Understanding Meaning of Operations: The student demonstrates conceptual understanding of mathematical operations by</b>	
[9] N-3 using models, explanations, number lines, real-life situations, describing or illustrating the effects of arithmetic operations on real numbers (M1.4.3)	<b>Course VI:</b> <ul style="list-style-type: none"> <li>Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication</li> <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: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions</li> <li>Module: Decimals Unit: Multiplying Decimals Session: Calculating Products</li> <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 Subtracting Signed Numbers Session: Adding with Absolute Value</li> <li>Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Subtracting with Absolute Value</li> </ul>
[9] N-4 using models, explanations, number lines, real-life situations, describing or illustrating the use of inverse operations (squaring/square root) (M1.4.3 & 1.4.5)	<b>Course V:</b> <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> </ul>
<b>Number Theory: The student demonstrates conceptual understanding of number theory by</b>	

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.

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

<p>[9] N-5 applying the rules for order of operations to real numbers and variables (M1.3.5)</p>	<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> <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><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms</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: Solving Literal Equations Session: Substituting Values &amp; Solving an Equation</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: Applying Properties of Real Numbers</li> <li>• Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions</li> </ul>
<p>[9] N-6 using distributive property with variables (M1.4.5)</p>	<p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms</li> <li>• Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions</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: Applying Properties of Real Numbers</li> <li>• Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations</li> </ul>
<p><b>Measurement: Select and use systems, units, and tools of measurement</b></p>	
<p><b>Measurable Attributes: The student demonstrates understanding of measurable attributes by</b></p>	
<p>[9] MEA-1 estimating or converting measurements between the English and metric systems in real-world applications, given a conversion factor (e.g., miles/kilometers) (M2.4.2)</p>	<p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products</li> </ul> <p><b>Course V:</b></p> <ul style="list-style-type: none"> <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>Measurement Techniques: The student uses measurement techniques by</b></p>	
<p>[9] MEA-2 applying indirect methods, such as the Pythagorean theorem to find missing dimensions, in real-world applications (M2.4.4)</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 Radicals</li> </ul>

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

	<ul style="list-style-type: none"> <li>&amp; Pythagorean Theorem Session: Defining Irrational Numbers</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>
<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>	
[9] E&C-1 judging whether the strategy will result in an answer greater or less than the exact answer (M3.4.1)	<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: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers</li> </ul>
<b>Computation: The student accurately solves problems (including real-world situations) involving</b>	
[9] E&C-2 adding or subtracting rational numbers including integers with whole number exponents (M3.4.2)	<b>Course VI:</b> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators</li> <li>• Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators</li> <li>• Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions</li> <li>• Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators</li> <li>• Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators</li> <li>• Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions</li> <li>• Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids</li> <li>• Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers</li> <li>• Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths</li> <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 Subtracting Signed Numbers Session: Adding with Absolute Value</li> <li>• Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Subtracting with Absolute Value</li> </ul>
[9] E&C-3 multiplying or dividing rational numbers including integers with whole number exponents (M3.4.3)	<b>Course VI:</b> <ul style="list-style-type: none"> <li>• Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers</li> <li>• Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products</li> <li>• Module: Fractions Unit: Multiplying Fractions Session:</li> </ul>

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

	<p>Representing Multiplication</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 Missing Value Problems when Dividing Fractions</li> <li>• Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10</li> <li>• Module: Decimals Unit: Multiplying Decimals Session: Calculating Products</li> <li>• Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism</li> <li>• Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers</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: 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> </ul>
<p>[9] E&amp;C-4 determining rate by using ratio and proportion (M3.4.5)</p>	<p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Ratio &amp; Proportion Unit: Ratio Session: Forming Ratios between Unlike Quantities</li> <li>• Module: Ratio &amp; Proportion Unit: Proportion Session: Solving for a Variable in a Proportion</li> <li>• Module: Ratio &amp; Proportion Unit: Direct &amp; Inverse Variation Session: Exploring Inverse Variation</li> <li>• Module: Ratio &amp; Proportion Unit: Direct &amp; Inverse Variation Session: Solving Inverse Variation Problems</li> </ul>
<p>[9] E&amp;C-5 multiplying or dividing numbers in scientific notation (M3.4.3)</p>	<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> <li>• Module: Radicals &amp; Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers between 0 &amp; 1 in Scientific Notation</li> </ul>
<p><b>Functions and Relationships: Represent, analyze, and use patterns, relations, and function</b></p>	
<p><b>Describing Patterns and Functions: The student demonstrates conceptual understanding of functions, patterns, or sequences including those represented in real world situations by</b></p>	
<p>[9] F&amp;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>	<p><b>Algebra Course 1:</b></p> <ul style="list-style-type: none"> <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</li> </ul>

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

	<p>Functions Session: Relations and Functions</p> <ul style="list-style-type: none"> <li>• Module: Linear Inequalities Unit: Inequalities in One Variable Session: Applying Inverse Operations</li> <li>• Module: Linear Inequalities Unit: Inequalities in One Variable Session: Graphing Solutions on a Number Line</li> </ul> <p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Graphing Parabolas</li> <li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Analyzing Properties of Parabolas</li> <li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Solving Quadratic Equations by Graphing</li> </ul>
<p>[9] F&amp;R-2 generalizing relationships (linear, quadratic, absolute value,) using a table of ordered pairs, a graph, or an equation (M4.4.4)</p>	<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: Graphing Ordered Pairs</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> <li>• Module: Linear Inequalities Unit: Inequalities in One Variable Session: Applying Inverse Operations</li> <li>• Module: Linear Inequalities Unit: Inequalities in One Variable Session: Graphing Solutions on a Number Line</li> </ul> <p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Graphing Parabolas</li> <li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Analyzing Properties of Parabolas</li> <li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Solving Quadratic Equations by Graphing</li> <li>• Module: Quadratic Functions &amp; Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring &amp; the Zero Product Theorem</li> <li>• Module: Quadratic Functions &amp; Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method &amp; Completing the Square</li> <li>• Module: Quadratic Functions &amp; Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula</li> </ul>
<p>[9] F&amp;R-3 describing in words how a change in one variable in a formula affects the remaining variables (e.g., how changing the radius affects the volume of a cylinder)</p>	<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>

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

(M4.3.2)	<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> <p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>Module: The Real Number System Unit: Rational &amp; Irrational Numbers Session: Working with Radicals</li> </ul>
[9] F&R-4 [using a calculator as a tool when describing, extending, representing, or graphing patterns or linear equations L] (M4.4.2)	<p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Graphing Parabolas</li> <li>Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Analyzing Properties of Parabolas</li> <li>Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Solving Quadratic Equations by Graphing</li> </ul>
<b>Modeling and Solving Equations and Inequalities: The student demonstrates algebraic thinking by</b>	
[9] F&R-5 modeling (graphically or algebraically) or solving situations (including real-world applications) using systems of linear equations (M4.4.3)	<p><b>Algebra Course 1:</b></p> <ul style="list-style-type: none"> <li>Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable</li> <li>Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable</li> </ul>
[9] F&R-6 solving or identifying solutions to multi-step linear equations of the form $ax \pm b = cx \pm d$ , where a, b, c and d are rational numbers and $a \neq 0$ , $c \neq 0$ (M4.4.2)	<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: Transforming Equations using Multiple Operations</li> <li>Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line</li> </ul>
[9] F&R-7 solving literal equations or formulas for a variable involving one step (e.g. solve for t when $d = rt$ ) (M4.4.2)	<p><b>Course V:</b></p> <ul style="list-style-type: none"> <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> <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: Applying Inverse Operations</li> </ul>
<b>Geometry: Construct, transform, and analyze geometric figures</b>	
<b>Geometric Relationships: The student demonstrates an understanding of geometric relationships by</b>	
[9] G-1 identifying, analyzing, comparing, or using properties of angles (including supplementary or complementary) or circles (degrees in a circle) (M5.4.1)	<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: Geometry Fundamentals Session: Defining Complementary &amp; Supplementary Angles</li> <li>Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles</li> <li>Module: Fundamentals of Geometry Unit: Triangles Session:</li> </ul>

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

	<ul style="list-style-type: none"> <li>Classifying Triangles by Angles</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>
<b>Perimeter, Area, and Volume: The student solves problems (including real world situations) by</b>	
[9] G-4 determining the volume or surface area of prisms, cylinders, cones or pyramids (M5.3.4)	<p><b>Course VI:</b></p> <ul style="list-style-type: none"> <li>• Module: Decimals Unit: Multiplying Decimals Session: Calculating Products</li> <li>• Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism</li> </ul> <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 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: Linear Equations in One Variable Session: Applying Inverse Operations</li> </ul>
<b>Position and Direction: The student demonstrates understanding of position and direction when solving problems (including real-world situations) by</b>	
[9] G-5 graphing or identifying (using equations or formulas to determine the slope of line segments on a coordinate plane) (M5.4.5)	<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: 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: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection</li> <li>• Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel &amp; Perpendicular Lines</li> </ul>
<b>Construction: The student demonstrates a conceptual understanding of geometric drawings or constructions by</b>	
[9] G-6 drawing, measuring, or constructing geometric models of plane figures (containing parallel and/or perpendicular lines) (M5.4.6)	<p><b>Algebra Course 1:</b></p> <ul style="list-style-type: none"> <li>• Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel &amp; Perpendicular Lines</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>	
[9] 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 sets of data [or with technology]	<p><b>Course V:</b></p> <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> </ul>

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

L] (M6.4.1)	<ul style="list-style-type: none"> <li>• Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs</li> </ul> <p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>• Module: Describing Data Unit: Graphical Displays Session: Stem-&amp;-Leaf Plots &amp; Box Plots</li> <li>• Module: Describing Data Unit: Graphical Displays Session: Scatter Plots &amp; Linear Best-Fit Graphs</li> </ul>
<p><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></p>	
[9] S&P-2 using information from a variety of displays or analyzing the validity of statistical conclusions found in the media (M6.4.1)	<p><b>Algebra Course 1:</b></p> <ul style="list-style-type: none"> <li>• Module: Linear Inequalities Unit: Inequalities in One Variable Session: Solving Absolute Value Inequalities</li> </ul>
[9] S&P-3 using range and measures of central tendency to determine the best representation of the data for a practical situation (M6.4.3)	<p><b>Course V:</b></p> <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: 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> </ul> <p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>• Module: Describing Data Unit: Graphical Displays Session: Stem-&amp;-Leaf Plots &amp; Box Plots</li> </ul>
[9] S&P-4 identifying and/or showing the meaning of a best fit line (M6.4.2)	<p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>• Module: Describing Data Unit: Graphical Displays Session: Scatter Plots &amp; Linear Best-Fit Graphs</li> </ul>
<p><b>Probability: The student demonstrates a conceptual understanding of probability and counting techniques by</b></p>	
[9] S&P-5 determining or comparing the experimental and/or theoretical probability of independent or dependent events (M6.4.5)	<p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Probability Unit: Simple Probability Session: Determining Probabilities of Complementary Events</li> <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> <li>• Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Mutually Exclusive Events</li> </ul>
[9] S&P-6 making predictions about the probability of independent or dependent events and using the information to solve problems (M6.4.5)	<p><b>Course V:</b></p> <ul style="list-style-type: none"> <li>• Module: Fundamentals of Probability Unit: Simple Probability Session: Determining Probabilities of Complementary Events</li> <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> <li>• Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of</li> </ul>

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

	Mutually Exclusive Events
<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>	
[9] PS-1 selecting, modifying, and applying a variety of problem-solving strategies (e.g., charts, graphing, inductive and deductive reasoning, Venn diagrams) and verifying the results (M7.4.2)	<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>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> <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: Graphic Solutions of Linear Systems Session: Graphing Parallel &amp; Perpendicular Lines</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: Applying Inverse Operations</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> <p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Solving Quadratic Equations by Graphing</li> <li>• Module: Algebraic Expressions &amp; Functions Unit: Radical Equations &amp; Functions Session: Solving Radical Equations</li> <li>• Module: Algebraic Expressions &amp; Functions Unit: Rational Expressions, Equations &amp; Functions Session: Rational Equations</li> </ul>
[9] PS-2 evaluating, interpreting, and	<b>Course VI:</b>

9 \*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.

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

<p>justifying solutions to problems by using an alternative strategy (M7.4.3)</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>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> <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: Graphic Solutions of Linear Systems Session: Graphing Parallel &amp; Perpendicular Lines</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: Applying Inverse Operations</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> <p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Solving Quadratic Equations by Graphing</li> <li>• Module: Algebraic Expressions &amp; Functions Unit: Radical Equations &amp; Functions Session: Solving Radical Equations</li> <li>• Module: Algebraic Expressions &amp; Functions Unit: Rational Expressions, Equations &amp; Functions Session: Rational Equations</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>[9] 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 (M8.4.1, M8.4.2, &amp;</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>

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

M8.4.3)	<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>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> <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: Graphic Solutions of Linear Systems Session: Graphing Parallel &amp; Perpendicular Lines</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: Applying Inverse Operations</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> <p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"> <li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Solving Quadratic Equations by Graphing</li> <li>• Module: Algebraic Expressions &amp; Functions Unit: Radical Equations &amp; Functions Session: Solving Radical Equations</li> <li>• Module: Algebraic Expressions &amp; Functions Unit: Rational Expressions, Equations &amp; Functions Session: Rational Equations</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>	
[9] PS-5 using real-world contexts such as science, humanities, peers, community, careers, and national issues (M10.4.1 & M10.4.2)	<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</li> </ul>

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

	<p>Substitution</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: 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> <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> </ul>
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**Riverdeep *Destination Math***  
**Aligned to Alaska Math Grade Level Expectations**  
**March 2007**

	<ul style="list-style-type: none"><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> <p><b>Algebra Course 2:</b></p> <ul style="list-style-type: none"><li>• Module: Powers &amp; Polynomials Unit: Polynomial Arithmetic Session: Working with Powers</li><li>• Module: Powers &amp; Polynomials Unit: Polynomial Arithmetic Session: Multiplying Polynomials</li><li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Graphing Parabolas</li><li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Analyzing Properties of Parabolas</li><li>• Module: Quadratic Functions &amp; Equations Unit: Graphing Quadratic Functions &amp; Equations Session: Solving Quadratic Equations by Graphing</li><li>• Module: Algebraic Expressions &amp; Functions Unit: Rational Expressions, Equations &amp; Functions Session: Rational Equations</li><li>• Module: Describing Data Unit: Graphical Displays Session: Stem-&amp;-Leaf Plots &amp; Box Plots</li></ul>
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