

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



Alaska Math Academic Content Standards	Destination Math
KINDERGARTEN	
Content Standard A: Mathematical facts, concepts, principles, and theories	
Numeration: Understand and use numeration	
Understanding Numbers: The student demonstrates conceptual understanding of whole numbers to 20 by:	
[K] N-1 demonstrating 1-1 correspondence (M1.1.1)	Course I: <ul style="list-style-type: none"> • Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5 • Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 1 to 5 • Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Representations of the Numbers from 1 to 5 • Module: Number Sense Unit: Numbers from 1 to 10 Session: Counting from 5 to 10 • Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Sets of 5 to 10 • Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Representations of the Numbers from 5 to 10 • Module: Number Sense Unit: Numbers from 1 to 10 Session: One More Than • Module: Number Sense Unit: Numbers from 1 to 10 Session: One Fewer Than and Zero • Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20
[K] N-2 recognizing and counting whole numbers from 0-20 (M1.1.1)	<ul style="list-style-type: none"> • Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5 • Module: Number Sense Unit: Numbers from 1 to 10 Session: Counting from 5 to 10 • Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20
[K] N-3 writing and ordering whole numbers from 0-20 (M1.1.1)	Course I: <ul style="list-style-type: none"> • Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same • Module: Addition and Subtraction Unit: Addition Session: Comparing within 10
[K] N-4 counting whole numbers backwards from 10 to 0 (M1.1.1)	Course I: <ul style="list-style-type: none"> • Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10
[K] N-5 identifying ordinal position, first to the tenth (M1.1.4)	Course I: <ul style="list-style-type: none"> • Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time
Understanding Meaning of Operations: The student demonstrates conceptual understanding of mathematical operations by	
[K] N-9 recognizing (+), (-), and (=) signs (M1.1.3)	Course I: <ul style="list-style-type: none"> • Module: Addition and Subtraction Unit: Addition Session:

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	<ul style="list-style-type: none"> Combining and Joining within 10 • Module: Addition and Subtraction Unit: Addition Session: Comparing within 10 • Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend • Module: Addition and Subtraction Unit: Addition Session: Sums within 20 • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10 • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20 • Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns
[K] N-10 using objects or pictures to model addition and subtraction of whole numbers (M1.1.3)	<p>Course I:</p> <ul style="list-style-type: none"> • Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10 • Module: Addition and Subtraction Unit: Addition Session: Comparing within 10 • Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend • Module: Addition and Subtraction Unit: Addition Session: Sums within 20 • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10 • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20
[K] N-11 using number lines or objects related to real situations (M1.1.3)	<p>Course I:</p> <ul style="list-style-type: none"> • Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10 • Module: Addition and Subtraction Unit: Addition Session: Comparing within 10 • Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend • Module: Addition and Subtraction Unit: Addition Session: Sums within 20 • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10 • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20 • Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs
Number Theory: The student demonstrates conceptual understanding of number theory by	
[K] N-12 demonstrating skip counting by 2's, 5's, and 10's with support (M1.1.6)	<p>Course I:</p> <ul style="list-style-type: none"> • Module: Number Sense Unit: Numbers to 100 Session: Skip-Counting by Tens and Fives • Module: Number Sense Unit: Numbers to 100 Session: Skip-Counting by Twos • Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns
Measurement: Select and use systems, units, and tools of measurement	
Measurable Attributes: The student demonstrates understanding of measurable attributes by	
[K] MEA-1 making comparisons between objects using concepts of big/little, long/short, large/small, more/less, same	<p>Course I:</p> <ul style="list-style-type: none"> • Module: Geometry and Measurement Unit: Measurement Session: Length

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(M2.1.1)	<ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Measurement Session: Weight Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs
[K] MEA-2 identifying coins by name: penny, nickel, dime, and quarter (M2.1.5)	Course I: <ul style="list-style-type: none"> Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20
Measurement Techniques: The student demonstrates ability to use measurement techniques by	
[K] MEA-3 identifying instruments used to measure length, time, and temperature (M2.1.3)	Course I: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Measurement Session: Length Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time
[K] MEA-4 naming in sequence the days of the week (M2.1.1)	Course I: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time
[K] MEA-5 telling time to the hour using analog and digital clocks (M2.1.4)	Course I: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time
Estimation and Computation: Perform basic arithmetic functions, make reasoned estimates, and select and use appropriate methods or tools	
Estimation: The student determines reasonable answers to real-life situations, paper/pencil computations, or calculator results by	
[K] E&C-1 comparing the number of objects in different sets using more, less, same	Course I: <ul style="list-style-type: none"> Module: Number Sense Unit: Numbers from 1 to 10 Session: One More Than Module: Number Sense Unit: Numbers from 1 to 10 Session: One Fewer Than and Zero Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100
[K] E&C-2 estimating the number of objects in a given set as more or less than 10 (M3.1.1)	Course I: <ul style="list-style-type: none"> Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend Module: Addition and Subtraction Unit: Addition Session: Sums within 20
Computation: The student accurately solves problems (including real-world situations) involving	
[K] E&C-3 adding and subtracting whole numbers up to ten using manipulatives (M3.1.3)	Course I: <ul style="list-style-type: none"> Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10 Module: Addition and Subtraction Unit: Addition Session: Comparing within 10 Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10
Functions and Relationships: Represent, analyze, and use patterns, relations, and functions	
Describing Patterns and Functions: The student demonstrates conceptual understanding of functions, patterns, or sequences by	
[K] F&R-1 recognizing patterns found in common objects, sounds, and movements (M4.1.1)	Course I: <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns
[K] F&R-2 identifying, sorting, and	Course I:

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classifying objects by attribute and identifying objects that do not belong to a particular group (M4.1.1)	<ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs
[K] F&R-3 recognizing, identifying, and continuing simple patterns of color, shape, or size (M4.1.1)	Course I: <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes
Modeling and Solving Equations and Inequalities: The student demonstrates algebraic thinking by	
[K] F&R-4 adding or subtracting whole numbers to 10 using manipulatives to solve story problems (M4.1.4)	Course I: <ul style="list-style-type: none"> Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10 Module: Addition and Subtraction Unit: Addition Session: Comparing within 10 Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10
[K] F&R-5 showing more, less, or equal to using objects (M4.1.4)	Course I: <ul style="list-style-type: none"> Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100
Geometry: Construct, transform, and analyze geometric figures.	
Geometric Relationships: The student demonstrates an understanding of geometric relationships by	
[K] G-1 sorting and classifying shapes according to similar attributes (M5.1.1)	Course I: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes
[K] G-2 describing objects using three attributes such as size, color, and shape (M5.1.1)	Course I: <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes
[K] G-3 identifying triangle, circle, rectangle, and square (M5.1.1)	Course I: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes
Similarity, Congruence, Symmetry, and Transformation of Shapes: The student demonstrates conceptual understanding of similarity, congruence, symmetry, or transformations of shapes by	
[K] G-4 comparing geometric shapes (M5.1.3)	Course I: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes
Position and Direction: The student demonstrates understanding of position and direction by	
[K] G-5 identifying positions of objects that are above, below, before, after, next to, in the middle of, in front of, behind... (M5.1.6)	Course I: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles
Construction: The student demonstrates a conceptual understanding of geometric drawings or constructions by	
[K] G-6 drawing, copying, or describing triangles, squares, rectangles and circles	Course I:

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(M5.1.7)	<ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes
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	
[K] S&P-1 constructing real graphs using concrete objects or pictographs with support (M6.1.1)	Course I: <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs
[K] S&P-2 collecting and recording data with support (M6.1.1)	Course I: <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs
Analysis and Central Tendency: The student demonstrates an ability to analyze data (comparing, explaining, interpreting, evaluating; or drawing or justifying conclusions) by	
[K] S&P-3 describing information from real graphs or pictographs (M6.1.2)	Course I: <ul style="list-style-type: none"> Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5 Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs
Content Standards B, C, D, and E: Process skills and abilities	
Applying conceptual knowledge and skills as 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	
[K] PS-1 solving simple problems using concrete objects (M7.1.2)	Course I: <ul style="list-style-type: none"> Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10 Module: Addition and Subtraction Unit: Addition Session: Comparing within 10 Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend Module: Addition and Subtraction Unit: Addition Session: Sums within 20 Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10 Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20 Module: Geometry and Measurement Unit: Measurement Session: Length Module: Geometry and Measurement Unit: Measurement Session: Weight Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time Module: Geometry and Measurement Unit: Measurement Session: Money Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns Module: Algebraic Thinking Unit: Patterns and Displays

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Session: Tables and Graphs	
Communication: Form and use appropriate methods to define and explain mathematical relationships: The student communicates his or her mathematical thinking by	
[K] PS-2 telling how objects were used to solve simple problems (M8.1.2)	Course I: <ul style="list-style-type: none"> • Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10 • Module: Addition and Subtraction Unit: Addition Session: Comparing within 10 • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10
Reasoning: Use logic and reason to solve mathematical problems: The student demonstrates an ability to use logic and reason by	
[K] PS-3 explaining what makes sense (M9.1.3)	Course I: <ul style="list-style-type: none"> • Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes • Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns
[K] PS-4 drawing pictures that support simple mathematical statements (M9.1.2)	Course I: <ul style="list-style-type: none"> • Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Representations of the Numbers from 1 to 5 • Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Representations of the Numbers from 5 to 10 • Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10 • Module: Addition and Subtraction Unit: Addition Session: Comparing within 10 • Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend • Module: Addition and Subtraction Unit: Addition Session: Sums within 20 • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10 • Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20 • Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles • Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs
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	
[K] PS-5 using real world context (i.e., self, friends, and family) (M10.1.2)	Course I: <ul style="list-style-type: none"> • Module: Number Sense Unit: Numbers to 100 Session: Skip-Counting by Twos • Module: Addition and Subtraction Unit: Addition Session: Comparing within 10