TOUCHMATH®

Alaska Content and Performance Standards

Subject: Mathematics

Grades: K, 1, 2, 3, 4, 5

Grade: **K** - Adopted: **2012**

STANDARD	NAME	TOUCHMATH UNITS AND MODULES
AK.MP.		**Mathematical Practices**
MP.1.	Make sense of problems and persevere in solving them.	Unit 1: Numbers & Operations Level 1 | Module 4: Addition Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 3: Addition Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 5: Word Problems
MP.4.	Model with mathematics.	

		Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3 Unit 1: Numbers & Operations Level 1 | Module 2: Representing 4-5 Unit 1: Numbers & Operations Level 1 | Module 3: Comparing Unit 1: Numbers & Operations Level 1 | Module 4: Addition Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 2: Number & Operations Level 2 | Module 3: Addition Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value Unit 3: Number & Operations Level 3 | Module 5: Word Problems Unit 3: Number & Operations Level 3 | Module 6: Counting Unit 4: Measurement, Geometry, & Data | Module 1: Describing Length Unit 4: Measurement, Geometry, & Data | Module 2: Sorting & Classifying Unit 4: Measurement, Geometry, & Data | Module 3: Data Unit 4: Measurement, Geometry, & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry, & Data | Module 5: 3-D Shapes
MP.5.	Use appropriate tools strategically.	Unit 4: Measurement, Geometry, & Data | Module 4: 2-D Shapes
MP.7.	Look for and make use of structure.	\

		TouchMath Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3 Unit 1: Numbers & Operations Level 1 | Module 2: Representing 4-5 Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value Unit 4: Measurement, Geometry, & Data | Module 3: Data Unit 4: Measurement, Geometry, & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry, & Data | Module 5: 3-D Shapes Unit 4: Measurement, Geometry, & Data | Module 6: Shapes in the Environment
AK.K.CC.	**Counting and Cardinality**	
	Know number names and the count sequence.	
K.CC.1.	Count to 100 by ones and by tens.	Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value Unit 3: Number & Operations Level 3 | Module 6: Counting
K.CC.2.	Count forward beginning from a given number within the known sequence.	Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3

		Unit 1: Numbers & Operations Level 1 | Module 2: Representing 4-5 Unit 1: Numbers & Operations Level 1 | Module 3: Comparing Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 2: Number & Operations Level 2 | Module 3: Addition Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 5: Word Problems Unit 3: Number & Operations Level 3 | Module 6: Counting
K.CC.3.	Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).	Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3 Unit 1: Numbers & Operations Level 1 | Module 2: Representing 4-5 Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value

		Unit 3: Number & Operations Level 3 | Module 6: Counting
AK.K.CC.	**Counting and Cardinality**	
	Count to tell the number of objects.	
K.CC.4.	**Understand the relationship between numbers and quantities; connect counting to cardinality.**	
K.CC.4.a.	When counting objects, say the number names in standard order, pairing each object with one and only one number name and each number name with one and only one object.	Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3 Unit 1: Numbers & Operations Level 1 | Module 2: Representing 4-5 Unit 1: Numbers & Operations Level 1 | Module 3: Comparing Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value Unit 3: Number & Operations Level 3 | Module 5: Word Problems Unit 4: Measurement, Geometry, & Data | Module 2: Sorting & Classifying

K.CC.4.b.	Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted.	Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3 Unit 1: Numbers & Operations Level 1 | Module 2: Representing 4-5 Unit 1: Numbers & Operations Level 1 | Module 3: Comparing Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value Unit 3: Number & Operations Level 3 | Module 5: Word Problems Unit 4: Measurement, Geometry, & Data | Module 2: Sorting & Classifying
K.CC.4.c.	Understand that each successive number name refers to a quantity that is one larger.	Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3 Unit 1: Numbers & Operations Level 1 | Module 2: Representing 4-5 Unit 1: Numbers & Operations Level 1 | Module 3: Comparing

		Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 2: Number & Operations Level 2 | Module 3: Addition Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 5: Word Problems Unit 3: Number & Operations Level 3 | Module 6: Counting
AK.K.CC.	**Counting and Cardinality**	
	Count to tell the number of objects.	
K.CC.5.	Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.	Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3 Unit 1: Numbers & Operations Level 1 | Module 2: Representing 4-5 Unit 1: Numbers & Operations Level 1 | Module 3: Comparing Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction

		Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value Unit 3: Number & Operations Level 3 | Module 5: Word Problems Unit 4: Measurement, Geometry, & Data | Module 2: Sorting & Classifying
AK.K.CC.	**Counting and Cardinality**	
	Compare numbers.	
K.CC.6.	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group (e.g., by using matching, counting, or estimating strategies).	Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3 Unit 1: Numbers & Operations Level 1 | Module 3: Comparing Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 4: Measurement, Geometry, & Data | Module 3: Data

K.CC.7.	Compare and order two numbers between 1 and 10 presented as written numerals.	Unit 1: Numbers & Operations Level 1 | Module 3: Comparing Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 3: Addition Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20
AK.K.OA.	**Operations and Algebraic Thinking**	
	Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.	
K.OA.1.	Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps) acting out situations, verbal explanations, expressions, or equations.	Unit 1: Numbers & Operations Level 1 | Module 4: Addition Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction

		Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 3: Addition Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value Unit 3: Number & Operations Level 3 | Module 5: Word Problems
K.OA.2.	Add or subtract whole numbers to 10 (e.g., by using objects or drawings to solve word problems).	Unit 1: Numbers & Operations Level 1 | Module 4: Addition Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 3: Addition Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value Unit 3: Number & Operations Level 3 | Module 5: Word Problems

K.OA.3.	Decompose numbers less than or equal to10 into pairs in more than one way (e.g., by using objects or drawings, and record each decomposition by a drawing or equation). For example, 5 = 2 + 3 and 5 = 4 + 1.	Unit 1: Numbers & Operations Level 1 | Module 4: Addition Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value
K.OA.4.	For any number from 1- 4, find the number that makes 5 when added to the given number and, for any number from 1-9, find the number that makes 10 when added to the given number (e.g., by using objects, drawings or 10 frames) and record the answer with a drawing or equation.	

		Unit 1: Numbers & Operations Level 1 | Module 4: Addition Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value
K.OA.5.	Fluently add and subtract numbers up to 5.	Unit 1: Numbers & Operations Level 1 | Module 4: Addition Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 3: Addition Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 5: Word Problems
AK.K.NBT.	**Number and Operations in Base Ten**	

	Work with numbers 11-19 to gain foundations for place value.	
K.NBT.1.	Compose and decompose numbers from 11 to 19 into ten ones and some further ones (e.g., by using objects or drawings) and record each composition and decomposition by a drawing or equation (e.g., 18 = 10 + 8); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight or nine ones.	Unit 1: Numbers & Operations Level 1 | Module 4: Addition Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction Unit 1: Numbers & Operations Level 1 | Module 6: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 4: Subtraction Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value
AK.K.MD.	**Measurement and Data**	
	Describe and compare measurable attributes.	

K.MD.1.	Describe measurable attributes of objects (e.g., length or weight). Match measuring tools to attribute (e.g., ruler to length). Describe several measurable attributes of a single object.	Unit 4: Measurement, Geometry, & Data | Module 1: Describing Length Unit 4: Measurement, Geometry, & Data | Module 2: Sorting & Classifying Unit 4: Measurement, Geometry, & Data | Module 3: Data
K.MD.2.	Make comparisons between two objects with a measurable attribute in common, to see which object has “more of”/“less of” the attribute, and describe the difference. For example, directly compare the heights of two children and describe one child as taller/shorter.	Unit 4: Measurement, Geometry, & Data | Module 1: Describing Length Unit 4: Measurement, Geometry, & Data | Module 2: Sorting & Classifying Unit 4: Measurement, Geometry, & Data | Module 3: Data
AK.K.MD.	**Measurement and Data**	
	Classify objects and count the number of objects in each category.	

K.MD.3.	Classify objects into given categories (attributes). Count the number of objects in each category (limit category counts to be less than or equal to 10).	Unit 1: Numbers & Operations Level 1 | Module 1: Representing 0-3 Unit 1: Numbers & Operations Level 1 | Module 2: Representing 4-5 Unit 1: Numbers & Operations Level 1 | Module 3: Comparing Unit 2: Number & Operations Level 2 | Module 1: Representing 6-7 Unit 2: Number & Operations Level 2 | Module 2: Representing 8-9 Unit 2: Number & Operations Level 2 | Module 5: Addition & Subtraction Unit 2: Number & Operations Level 2 | Module 6: Composing & Decomposing Unit 3: Number & Operations Level 3 | Module 1: Composing & Decomposing 10 Unit 3: Number & Operations Level 3 | Module 2: Numbers 10-15 Unit 3: Number & Operations Level 3 | Module 3: Numbers 16-20 Unit 3: Number & Operations Level 3 | Module 4: Place Value Unit 3: Number & Operations Level 3 | Module 5: Word Problems Unit 4: Measurement, Geometry, & Data | Module 2: Sorting & Classifying Unit 4: Measurement, Geometry, & Data | Module 3: Data Unit 4: Measurement, Geometry, & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry, & Data | Module 5: 3-D Shapes
AK.K.MD.	**Measurement and Data**	
	Work with time and money.	
K.MD.6.	Identify coins by name.	Unit 4: Measurement, Geometry, & Data | Module 5: 3-D Shapes

AK.K.G.	**Geometry**	
	Identify and describe shapes.	
K.G.1.	Describe objects in the environment using names of shapes and describe their relative positions (e.g., above, below, beside, in front of, behind, next to).	Unit 4: Measurement, Geometry, & Data | Module 6: Shapes in the Environment
K.G.2.	Name shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones,cylinders, and spheres) regardless of their orientation or overall size.	Unit 4: Measurement, Geometry, & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry, & Data | Module 5: 3-D Shapes
K.G.3.	Identify shapes as two-dimensional (flat) or three-dimensional (solid).	Unit 4: Measurement, Geometry, & Data | Module 6: Shapes in the Environment
AK.K.G.	**Geometry**	
	Analyze, compare, create, and compose shapes.	

K.G.4.	Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices), and other attributes (e.g., having sides of equal lengths).	Unit 4: Measurement, Geometry, & Data | Module 3: Data Unit 4: Measurement, Geometry, & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry, & Data | Module 5: 3-D Shapes
K.G.6.	Put together two-dimensional shapes to form larger shapes (e.g., join two triangles with full sides touching to make a rectangle).	Unit 4: Measurement, Geometry, & Data | Module 4: 2-D Shapes
Grade: **1** - Adopted: **2012**		
AK.MP.	**Mathematical Practices**	
MP.1.	Make sense of problems and persevere in solving them.	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 2: Addition within 13 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 4: Backward Counting Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20

		Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100 Unit 4: Measurement, Geometry & Data | Module 1: Time & Money Unit 4: Measurement, Geometry & Data | Module 2: Length
MP.2.	Reason abstractly and quantitatively.	Unit 2: Numbers & Operations Level 2 | Module 4: Backward Counting Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20
MP.4.	Model with mathematics.	Unit 1: Numbers & Operations Level 1 | Module 1: Counting Unit 1: Numbers & Operations Level 1 | Module 2: TouchPoints Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 2: Numbers & Operations Level 2 | Module 1: Place Value Unit 2: Numbers & Operations Level 2 | Module 2: Addition within 13 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100 Unit 4: Measurement, Geometry & Data | Module 2: Length Unit 4: Measurement, Geometry & Data | Module 3: Data Unit 4: Measurement, Geometry & Data | Module 5: 3-D Shapes
MP.5.	Use appropriate tools strategically.	

		Unit 4: Measurement, Geometry & Data | Module 2: Length
MP.7.	Look for and make use of structure.	Unit 1: Numbers & Operations Level 1 | Module 2: TouchPoints Unit 2: Numbers & Operations Level 2 | Module 1: Place Value Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 3: Numbers & Operations Level 3 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100 Unit 4: Measurement, Geometry & Data | Module 1: Time & Money Unit 4: Measurement, Geometry & Data | Module 2: Length Unit 4: Measurement, Geometry & Data | Module 3: Data Unit 4: Measurement, Geometry & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry & Data | Module 5: 3-D Shapes Unit 4: Measurement, Geometry & Data | Module 6: Fractional Parts of Shapes
AK.1.CC.	**Counting and Cardinality**	
	Know ordinal names and counting flexibility.	
1.CC.3.	Order numbers from 1-100. Demonstrate ability in counting forward and backward.	Unit 1: Numbers & Operations Level 1 | Module 1: Counting Unit 1: Numbers & Operations Level 1 | Module 2: TouchPoints

		Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 2: Numbers & Operations Level 2 | Module 1: Place Value Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 4: Backward Counting Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
AK.1.CC.	**Counting and Cardinality**	
	Count to tell the number of objects.	
1.CC.4.	Count a large quantity of objects by grouping into 10s and counting by 10s and 1s to find the quantity.	Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies
AK.1.CC.	**Counting and Cardinality**	
	Compare numbers.	
1.CC.5.	Use the symbols for greater than, less than or equal to when comparing two numbers or groups of objects.	Unit 1: Numbers & Operations Level 1 | Module 2: TouchPoints
AK.1.OA.	**Operations and Algebraic Thinking**	

	Represent and solve problems involving addition and subtraction.	
1.OA.1.	Use addition and subtraction strategies to solve word problems (using numbers up to 20), involving situations of adding to, taking from, putting together, taking apart and comparing, with unknowns in all positions, using a number line (e.g., by using objects, drawings and equations). Record and explain using equation symbols and a symbol for the unknown number to represent the problem.	Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100

1.OA.2.	Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20 (e.g., by using objects, drawings and equations). Record and explain using equation symbols and a symbol for the unknown number to represent the problem.	Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition
AK.1.OA.	**Operations and Algebraic Thinking**	
	Understand and apply properties of operations and the relationship between addition and subtraction.	

1.OA.3.	Apply properties of operations as strategies to add and subtract. (Students need not know the name of the property.) For example: If 8 + 3 = 11 is known, then 3 + 8 = 11 is also known (Commutative property of addition). To add 2 + 6 + 4, the second two numbers can be added to make a ten, so 2 + 6 + 4 = 2 + 10 = 12 (Associative property of addition). Demonstrate that when adding zero to any number, the quantity does not change (Identity property of addition).	Unit 2: Numbers & Operations Level 2 | Module 2: Addition within 13 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies
1.OA.4.	Understand subtraction as an unknown-addend problem. For example, subtract 10 - 8 by finding the number that makes 10 when added to 8.	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 2: Addition within 13 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20

		Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
AK.1.OA.	**Operations and Algebraic Thinking**	
	Add and subtract using numbers up to 20.	
1.OA.5.	Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 2: Addition within 13 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 4: Backward Counting Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
AK.1.OA.	**Operations and Algebraic Thinking**	
	Add and subtract using numbers up to 20.	

1.OA.6.	**Add and subtract using numbers up to 20, demonstrating fluency for addition and subtraction up to 10. Use strategies such as**	
1.OA.6.a.	Counting on	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
1.OA.6.b.	Making ten (8 + 6 = 8 + 2 + 4 = 10 + 4 = 14)	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100

		Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
1.OA.6.d.	Using the relationship between addition and subtraction, such as fact families, (8 + 4 = 12 and 12 - 8 = 4)	Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies
1.OA.6.e.	Creating equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13).	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
AK.1.OA.	**Operations and Algebraic Thinking**	
	Work with addition and subtraction equations.	

1.OA.7.	Understand the meaning of the equal sign (e.g., read equal sign as “same as”) and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false?6 = 6, 7 = 8 - 1, 5 + 2 = 2 + 5, 4 + 1 = 5 + 2).	Unit 1: Numbers & Operations Level 1 | Module 2: TouchPoints Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 1: Place Value Unit 2: Numbers & Operations Level 2 | Module 2: Addition within 13 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies
1.OA.8.	Determine the unknown whole number in an addition or subtraction equation. For example, determine the unknown number that makes the equation true in each of the equations 8 + ? = 11, 6 + 6 = ?, 5 = ? - 3.	Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 2: Addition within 13

		Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
AK.1.OA.	**Operations and Algebraic Thinking**	
	Identify and continue patterns.	
1.OA.9.	Identify, continue and label patterns (e.g., aabb, abab). Create patterns using number, shape, size, rhythm or color.	Unit 2: Numbers & Operations Level 2 | Module 4: Backward Counting Unit 3: Numbers & Operations Level 3 | Module 1: Place Value
AK.1.NBT.	**Number and Operations in Base Ten**	
	Extend the counting sequence.	
1.NBT.1.	Count to 120. In this range, read, write and order numerals and represent a number of objects with a written numeral.	Unit 1: Numbers & Operations Level 1 | Module 1: Counting Unit 1: Numbers & Operations Level 1 | Module 2: TouchPoints Unit 2: Numbers & Operations Level 2 | Module 1: Place Value Unit 2: Numbers & Operations Level 2 | Module 4: Backward Counting Unit 3: Numbers & Operations Level 3 | Module 1: Place Value
AK.1.NBT.	**Number and Operations in Base Ten**	
	Understand place value.	

1.NBT.2.	**Model and identify place value positions of two digit numbers. Include:**	
1.NBT.2.a.	10 can be thought of as a bundle of ten ones, called a "ten".	Unit 2: Numbers & Operations Level 2 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
1.NBT.2.b.	The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight or nine ones.	Unit 2: Numbers & Operations Level 2 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
1.NBT.2.c.	The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90, refer to one, two, three, four, five, six, seven, eight or nine tens (and 0 ones).	Unit 2: Numbers & Operations Level 2 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 7: Within 100

AK.1.NBT.	**Number and Operations in Base Ten**	
	Understand place value.	
1.NBT.3.	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, <.	Unit 1: Numbers & Operations Level 1 | Module 2: TouchPoints Unit 2: Numbers & Operations Level 2 | Module 1: Place Value Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 4: Backward Counting Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 1: Place Value Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
AK.1.NBT.	**Number and Operations in Base Ten**	
	Use place value understanding and properties of operations to add and subtract.	
1.NBT.4.	**Add using numbers up to 100 including adding a two-digit number and a one-digit number and adding a two-digit number and a multiple of 10.**	

1.NBT.4.a.	Use concrete models or drawings and strategies based on place value; properties of operations; and/or relationship between addition and subtraction.	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
1.NBT.4.b.	Relate the strategy to a written method and explain the reasoning used.	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 4: Addition within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 3: Addition within 20 Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100

1.NBT.4.c.	Demonstrate in adding two-digit numbers, tens and tens are added, ones and ones are added and sometimes it is necessary to compose a ten from ten ones.	Unit 3: Numbers & Operations Level 3 | Module 2: Addition within 100 Unit 3: Numbers & Operations Level 3 | Module 3: Mixed Addition Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
AK.1.NBT.	**Number and Operations in Base Ten**	
	Use place value understanding and properties of operations to add and subtract.	
1.NBT.5.	Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 3: Numbers & Operations Level 3 | Module 4: Addition Strategies Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
AK.1.NBT.	**Number and Operations in Base Ten**	
	Use place value understanding and properties of operations to add and subtract.	
1.NBT.6.	**Subtract multiples of 10 up to 100.**	

1.NBT.6.a.	Use concrete models or drawings; strategies based on place value; properties of operations; and/or the relationship between addition and subtraction.	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
1.NBT.6.b.	Relate the strategy to a written method and explain the reasoning used.	Unit 1: Numbers & Operations Level 1 | Module 3: Within 5 Unit 1: Numbers & Operations Level 1 | Module 5: Subtraction within 9 Unit 1: Numbers & Operations Level 1 | Module 6: Within 9 Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 2: Numbers & Operations Level 2 | Module 6: Within 20 Unit 3: Numbers & Operations Level 3 | Module 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
AK.1.MD.	**Measurement and Data**	
	Measure lengths indirectly and by iterating length units.	

1.MD.1.	Measure and compare three objects using standard or non-standard units.	Unit 4: Measurement, Geometry & Data | Module 2: Length
AK.1.MD.	**Measurement and Data**	
	Work with time and money.	
1.MD.3.	Tell and write time in half hours using both analog and digital clocks.	Unit 4: Measurement, Geometry & Data | Module 1: Time & Money
1.MD.5.	Recognize and read money symbols including $ and ¢.	Unit 4: Measurement, Geometry & Data | Module 1: Time & Money
1.MD.6.	Identify values of coins (e.g., nickel = 5 cents, quarter = 25 cents). Identify equivalent values of coins up to $1 (e.g., 5 pennies = 1 nickel, 5 nickels = 1 quarter).	Unit 4: Measurement, Geometry & Data | Module 1: Time & Money
AK.1.MD.	**Measurement and Data**	
	Represent and interpret data.	
1.MD.7.	Organize, represent and interpret data with up to three categories. Ask and answer comparison and quantity questions about the data.	Unit 4: Measurement, Geometry & Data | Module 3: Data

AK.1.G.	**Geometry**	
	Reason with shapes and their attributes.	
1.G.1.	Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes. Identify shapes that have non-defining attributes (e.g., color, orientation, overall size). Build and draw shapes given specified attributes.	Unit 4: Measurement, Geometry & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry & Data | Module 5: 3-D Shapes
1.G.2.	Compose (put together) two-dimensional or three-dimensional shapes to create a larger, composite shape, and compose new shapes from the composite shape.	Unit 4: Measurement, Geometry & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry & Data | Module 5: 3-D Shapes

1.G.3.	Partition circles and rectangles into two and four equal shares. Describe the shares using the words, halves, fourths, and quarters and phrases half of, fourth of and quarter of. Describe the whole as two of or four of the shares. Understand for these examples that decomposing (break apart) into more equal shares creates smaller shares.	Unit 4: Measurement, Geometry & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry & Data | Module 6: Fractional Parts of Shapes

Grade: **2** - Adopted: **2012**		
AK.MP.	**Mathematical Practices**	
MP.1.	Make sense of problems and persevere in solving them.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1:Addition& Subtraction Level 1 | Module 1: Within 13 Unit 1:Addition& Subtraction Level 1 | Module 2: Within 20 Unit 1:Addition& Subtraction Level 1 | Module 3: Within 50 Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 5: Subtraction with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 4: Addition within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Subtraction within 100

		Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations Unit 3: Operations with Multi-Digit Numbers | Module 5: Multiplication 1 Unit 3: Operations with Multi-Digit Numbers | Module 6: Multiplication 2 Unit 4: Measurement, Geometry & Data | Module 1: Time Unit 4: Measurement, Geometry & Data | Module 2: Money Unit 4: Measurement, Geometry & Data | Module 3: Data Unit 4: Measurement, Geometry & Data | Module 4: Measurement Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length
MP.2.	Reason abstractly and quantitatively.	Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations Unit 3: Operations with Multi-Digit Numbers | Module 5: Multiplication 1 Unit 4: Measurement, Geometry & Data | Module 6: Geometry
MP.4.	Model with mathematics.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 3: Backward Counting

		Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1:Addition& Subtraction Level 1 | Module 3: Within 50 Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 5: Subtraction with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 1: Place Value Unit 2: Addition & Subtraction Level 2 | Module 2: Counting & Reading Unit 2: Addition & Subtraction Level 2 | Module 4: Addition within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Subtraction within 100 Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations Unit 4: Measurement, Geometry & Data | Module 3: Data Unit 4: Measurement, Geometry & Data | Module 6: Geometry
MP.5.	Use appropriate tools strategically.	Unit 4: Measurement, Geometry & Data | Module 3: Data Unit 4: Measurement, Geometry & Data | Module 4: Measurement Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length
MP.6.	Attend to precision.	Unit 4: Measurement, Geometry & Data | Module 4: Measurement Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length
MP.7.	Look for and make use of structure.	

		Unit 1: Addition & Subtraction Level 1 | Module 1: Forward Counting Unit 1: Addition & Subtraction Level 1 | Module 3: Backward Counting Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1:Addition& Subtraction Level 1 | Module 1: Within 13 Unit 1:Addition& Subtraction Level 1 | Module 2: Within 20 Unit 1:Addition& Subtraction Level 1 | Module 3: Within 50 Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 5: Subtraction with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 1: Place Value Unit 2: Addition & Subtraction Level 2 | Module 2: Counting & Reading Unit 2: Addition & Subtraction Level 2 | Module 3: Reading & Writing Unit 2: Addition & Subtraction Level 2 | Module 4: Addition within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Subtraction within 100 Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 6: Multiplication 2 Unit 4: Measurement, Geometry & Data | Module 1: Time Unit 4: Measurement, Geometry & Data | Module 2: Money Unit 4: Measurement, Geometry & Data | Module 4: Measurement Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length Unit 4: Measurement, Geometry & Data | Module 6: Geometry
MP.8.	Look for and express regularity in repeated reasoning.	Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000

		Unit 3: Operations with Multi-Digit Numbers | Module 5: Multiplication 1 Unit 3: Operations with Multi-Digit Numbers | Module 6: Multiplication 2
AK.2.OA.	**Operations and Algebraic Thinking**	
	Represent and solve problems involving addition and subtraction.	
2.OA.1.	Use addition and subtraction strategies to estimate, then solve one- and two-step word problems (using numbers up to 100) involving situations of adding to, taking from, putting together, taking apart and comparing, with unknowns in all positions (e.g., by using objects, drawings and equations). Record and explain using equation symbols and a symbol for the unknown number to represent the problem.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1:Addition& Subtraction Level 1 | Module 1: Within 13 Unit 1:Addition& Subtraction Level 1 | Module 2: Within 20 Unit 1:Addition& Subtraction Level 1 | Module 3: Within 50 Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 5: Subtraction with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 4: Addition within 100

		Unit 2: Addition & Subtraction Level 2 | Module 5: Subtraction within 100 Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations
AK.2.OA.	**Operations and Algebraic Thinking**	
	Add and subtract using numbers up to 20.	
2.OA.2.	Fluently add and subtract using numbers up to 20 using mental strategies. Know from memory all sums of two one-digit numbers.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1:Addition& Subtraction Level 1 | Module 1: Within 13 Unit 1:Addition& Subtraction Level 1 | Module 2: Within 20 Unit 1:Addition& Subtraction Level 1 | Module 3: Within 50 Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 5: Subtraction with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 4: Addition within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Subtraction within 100 Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000

		Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations
AK.2.OA.	**Operations and Algebraic Thinking**	
	Work with equal groups of objects to gain foundations for multiplication.	
2.OA.3.	Determine whether a group of objects (up to 20) is odd or even (e.g., by pairing objects and comparing, counting by 2s). Model an even number as two equal groups of objects and then write an equation as a sum of two equal addends.	Unit 3: Operations with Multi-Digit Numbers | Module 5: Multiplication 1
2.OA.4.	Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns. Write an equation to express the total as repeated addition (e.g., array of 4 by 5 would be 5 + 5 + 5 + 5 = 20).	Unit 3: Operations with Multi-Digit Numbers | Module 6: Multiplication 2 Unit 4: Measurement, Geometry & Data | Module 6: Geometry
AK.2.OA.	**Operations and Algebraic Thinking**	
	Identify and continue patterns.	

2.OA.5.	Identify, continue and label number patterns (e.g., aabb, abab). Describe a rule that determines and continues a sequence or pattern.	Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100
AK.2.NBT.	**Number and Operations in Base Ten**	
	Understand place value.	
2.NBT.1.	**Model and identify place value positions of three digit numbers. Include:**	
2.NBT.1.a.	100 can be thought of as a bundle of ten tens --called a "hundred".	Unit 2: Addition & Subtraction Level 2 | Module 1: Place Value
2.NBT.1.b.	The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).	Unit 2: Addition & Subtraction Level 2 | Module 1: Place Value
AK.2.NBT.	**Number and Operations in Base Ten**	
	Understand place value.	
2.NBT.2.	Count up to 1000, skip-count by 5s, 10s and 100s.	

		Unit 2: Addition & Subtraction Level 2 | Module 2: Counting & Reading Unit 2: Addition & Subtraction Level 2 | Module 3: Reading & Writing Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100 Unit 3: Operations with Multi-Digit Numbers | Module 6: Multiplication 2 Unit 4: Measurement, Geometry & Data | Module 1: Time Unit 4: Measurement, Geometry & Data | Module 2: Money
2.NBT.3.	Read, write, order up to 1000 using base-ten numerals, number names and expanded form.	Unit 1: Addition & Subtraction Level 1 | Module 1: Forward Counting Unit 1: Addition & Subtraction Level 1 | Module 3: Backward Counting Unit 2: Addition & Subtraction Level 2 | Module 1: Place Value Unit 2: Addition & Subtraction Level 2 | Module 2: Counting & Reading Unit 2: Addition & Subtraction Level 2 | Module 3: Reading & Writing Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100
2.NBT.4.	Compare two three-digit numbers based on the meanings of the hundreds, tens and ones digits, using >, =, < symbols to record the results.	Unit 1: Addition & Subtraction Level 1 | Module 1: Forward Counting Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 3: Backward Counting Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 2: Addition & Subtraction Level 2 | Module 1: Place Value Unit 2: Addition & Subtraction Level 2 | Module 2: Counting & Reading Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100

		Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations
AK.2.NBT.	**Number and Operations in Base Ten**	
	Use place value understanding and properties of operations to add and subtract.	
2.NBT.5.	**Fluently add and subtract using numbers up to 100.**	
2.NBT.5.a.	Use strategies based on place value; properties of operations; and/or the relationship between addition and subtraction.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1:Addition& Subtraction Level 1 | Module 2: Within 20 Unit 1:Addition& Subtraction Level 1 | Module 3: Within 50 Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 5: Subtraction with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 4: Addition within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Subtraction within 100 Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000

		Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations
AK.2.NBT.	**Number and Operations in Base Ten**	
	Use place value understanding and properties of operations to add and subtract.	
2.NBT.6.	Add up to four two-digit numbers using strategies based on place value and properties of operations.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1:Addition& Subtraction Level 1 | Module 2: Within 20 Unit 1:Addition& Subtraction Level 1 | Module 3: Within 50 Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 4: Addition within 100 Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations
AK.2.NBT.	**Number and Operations in Base Ten**	
	Use place value understanding and properties of operations to add and subtract.	
2.NBT.7.	**Add and subtract using numbers up to 1000.**	

2.NBT.7.a.	Use concrete models or drawings and strategies based on place value; properties of operations; and/or relationship between addition and subtraction.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1:Addition& Subtraction Level 1 | Module 2: Within 20 Unit 1:Addition& Subtraction Level 1 | Module 3: Within 50 Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 5: Subtraction with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 4: Addition within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Subtraction within 100 Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations
2.NBT.7.b.	Relate the strategy to a written method and explain the reasoning used.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1:Addition& Subtraction Level 1 | Module 2: Within 20 Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping

		Unit 1:Addition& Subtraction Level 1 | Module 5: Subtraction with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations
2.NBT.7.c.	Demonstrate in adding or subtracting three-digit numbers, hundreds and hundreds are added or subtracted, tens and tens are added or subtracted, ones and ones are added or subtracted and sometimes it is necessary to compose a ten from ten ones or a hundred from ten tens.	Unit 1:Addition& Subtraction Level 1 | Module 4: Addition with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 5: Subtraction with Regrouping Unit 1:Addition& Subtraction Level 1 | Module 6: Mixed Regrouping Unit 2: Addition & Subtraction Level 2 | Module 4: Addition within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Subtraction within 100 Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 2: Addition within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 3: Subtraction within 1,000 Unit 3: Operations with Multi-Digit Numbers | Module 4: Mixed Operations
AK.2.NBT.	**Number and Operations in Base Ten**	

	Use place value understanding and properties of operations to add and subtract.	
2.NBT.8.	Mentally add 10 or 100 to a given number 100-900 and mentally subtract 10 or 100 from a given number.	Unit 2: Addition & Subtraction Level 2 | Module 1: Place Value Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100
AK.2.MD.	**Measurement and Data**	
	Measure and estimate lengths in standard units.	
2.MD.1.	Measure the length of an object by selecting and using standard tools such as rulers, yardsticks, meter sticks, and measuring tapes.	Unit 4: Measurement, Geometry & Data | Module 3: Data Unit 4: Measurement, Geometry & Data | Module 4: Measurement Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length
2.MD.2.	Measure the length of an object twice using different length units for the two measurements. Describe how the two measurements relate to the size of the unit chosen.	Unit 4: Measurement, Geometry & Data | Module 4: Measurement

2.MD.3.	Estimate, measure and draw lengths using whole units of inches, feet, yards, centimeters and meters.	Unit 4: Measurement, Geometry & Data | Module 3: Data Unit 4: Measurement, Geometry & Data | Module 4: Measurement Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length
2.MD.4.	Measure to compare lengths of two objects, expressing the difference in terms of a standard length unit.	Unit 4: Measurement, Geometry & Data | Module 4: Measurement Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length
AK.2.MD.	**Measurement and Data**	
	Relate addition and subtraction to length.	
2.MD.5.	Solve addition and subtraction word problems using numbers up to 100 involving length that are given in the same units (e.g., by using drawings of rulers). Write an equation with a symbol for the unknown to represent the problem.	Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length

2.MD.6.	Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1,2, ..., and represent whole-number sums and differences within 100 on a number line diagram.	Unit 2: Addition & Subtraction Level 2 | Module 1: Place Value Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length
AK.2.MD.	**Measurement and Data**	
	Work with time and money.	
2.MD.7.	Tell and write time to the nearest five minutes using a.m. and p.m. from analog and digital clocks.	Unit 4: Measurement, Geometry & Data | Module 1: Time
2.MD.8.	Solve word problems involving dollar bills and coins using the $ and ¢ symbols appropriately.	Unit 4: Measurement, Geometry & Data | Module 2: Money
AK.2.MD.	**Measurement and Data**	
	Represent and interpret data.	
2.MD.9.	Collect, record, interpret, represent, and describe data in a table, graph or line plot.	Unit 4: Measurement, Geometry & Data | Module 3: Data

2.MD.10.	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart and compare problems using information presented in a bar graph.	Unit 4: Measurement, Geometry & Data | Module 3: Data
AK.2.G.	**Geometry**	
	Reason with shapes and their attributes.	
2.G.1.	Identify and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces compared visually, not by measuring. Identify triangles, quadrilaterals, pentagons, hexagons and cubes.	Unit 4: Measurement, Geometry & Data | Module 6: Geometry
2.G.2.	Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.	Unit 3: Operations with Multi-Digit Numbers | Module 6: Multiplication 2 Unit 4: Measurement, Geometry & Data | Module 6: Geometry

2.G.3.	Partition circles and rectangles into shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.	Unit 4: Measurement, Geometry & Data | Module 6: Geometry
Grade: **3** - Adopted: **2012**		
AK.MP.	**Mathematical Practices**	
MP.1.	Make sense of problems and persevere in solving them.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1: Addition & Subtraction Level 1 | Module 5: Fact Families Unit 1: Addition & Subtraction Level 1 | Module 6: Place Value Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 1: Counting to 1,000 Unit 2: Addition & Subtraction Level 2 | Module 2: Within 20 Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5

		Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits
MP.2.	Reason abstractly and quantitatively.	Unit 2: Addition & Subtraction Level 2 | Module 1: Counting to 1,000 Unit 2: Addition & Subtraction Level 2 | Module 2: Within 20 Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit

		Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits
MP.4.	Model with mathematics.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 3: Backward Counting Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1: Addition & Subtraction Level 1 | Module 6: Place Value Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit

		Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts
MP.7.	Look for and make use of structure.	Unit 1: Addition & Subtraction Level 1 | Module 1: Forward Counting Unit 1: Addition & Subtraction Level 1 | Module 3: Backward Counting Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1: Addition & Subtraction Level 1 | Module 5: Fact Families Unit 1: Addition & Subtraction Level 1 | Module 6: Place Value Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 1: Counting to 1,000 Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes

MP.8.	Look for and express regularity in repeated reasoning.	Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits
AK.3.OA.	**Operations and Algebraic Thinking**	
	Represent and solve problems involving multiplication and division.	
3.OA.1.	Interpret products of whole numbers (e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each). For example, show objects in rectangular arrays or describe a context in which a total number of objects can be expressed as 5 × 7.	Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication

3.OA.2.	Interpret whole-number quotients of whole numbers (e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each). For example, deconstruct rectangular arrays or describe a context in which a number of shares or a number of groups can be expressed as 56 ÷ 8.	Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit
3.OA.3.	Use multiplication and division numbers up to 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem).	Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations

		Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits
3.OA.4.	Determine the unknown whole number in a multiplication or division equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations 8 x ? = 48, 5 = ? ÷ 3, 6 x 6 = ?	Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits
AK.3.OA.	**Operations and Algebraic Thinking**	
	Understand properties of multiplication and the relationship between multiplication and division.	

3.OA.5.	**Make, test, support, draw conclusions and justify conjectures about properties of operations as strategies to multiply and divide. (Students need not use formal terms for these properties.)**	
3.OA.5.a.	Commutative property of multiplication: If 6 × 4 = 24 is known, then 4 × 6 = 24 is also known.	Unit 1: Addition & Subtraction Level 1 | Module 5: Fact Families Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 2: Within 20 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations
3.OA.5.b.	Associative property of multiplication: 3 × 5 × 2 can be found by 3 × 5 = 15, then 15 × 2 = 30, or by 5 × 2 = 10, then 3 × 10 = 30.	Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations

3.OA.5.c.	Distributive property: Knowing that 8 × 5 = 40 and 8 × 2 = 16, one can find 8 × 7 as 8 × (5 + 2) = (8 × 5) + (8 × 2) = 40 + 16 = 56.	Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits
AK.3.OA.	**Operations and Algebraic Thinking**	
	Understand properties of multiplication and the relationship between multiplication and division.	
3.OA.6.	Understand division as an unknown-factor problem. For example, find 32 ÷ 8 by finding the number that makes 32 when multiplied by 8.	Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits
AK.3.OA.	**Operations and Algebraic Thinking**	**Operations and Algebraic Thinking**
	Multiply and divide up to 100.	

3.OA.7.	Fluently multiply and divide numbers up to 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 ×5 = 40, one knows 40 ÷ 5 = 8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits
AK.3.OA.	**Operations and Algebraic Thinking**	
	Solve problems involving the four operations, and identify and explain patterns in arithmetic.	

3.OA.8.	Solve and create two-step word problems using any of the four operations. Represent these problems using equations with a symbol (box, circle, question mark) standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 4: Subtraction Unit 1: Addition & Subtraction Level 1 | Module 5: Fact Families Unit 1: Addition & Subtraction Level 1 | Module 6: Place Value Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 2: Within 20 Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits

		Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits
3.OA.9.	Identify arithmetic patterns (including patterns in the addition table or multiplication table) and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.	Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review
AK.3.NBT.	**Number and Operations in Base Ten**	
	Use place value understanding and properties of operations to perform multi-digit arithmetic.	
3.NBT.1.	Use place value understanding to round whole numbers to the nearest 10 or 100.	Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value

		Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits
3.NBT.2.	Use strategies and/or algorithms to fluently add and subtract with numbers up to 1000, demonstrating understanding of place value, properties of operations, and/or the relationship between addition and subtraction.	Unit 1: Addition & Subtraction Level 1 | Module 2: Addition Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 2: Within 20 Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits
3.NBT.3.	Multiply one digit whole numbers by multiples of 10 in the range 10-90 (e.g., 9 x 80, 10 x 60) using strategies based on place value and properties of operations.	Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits

AK.3.NF.	**Number and Operations –Fractions**	
	Develop understanding of fractions as numbers.	
3.NF.1.	Understand a fraction 1/b (e.g., 1/4) as the quantity formed by 1 part when a whole is partitioned into b (e.g., 4) equal parts; understand a fraction a/b (e.g., 2/4) as the quantity formed by a (e.g., 2) parts of size 1/b. (e.g., 1/4)	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts
AK.3.NF.	**Number and Operations –Fractions**	
	Develop understanding of fractions as numbers.	
3.NF.3.	**Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.**	
3.NF.3.a.	Understand two fractions as equivalent if they are the same size (modeled) or the same point on a number line.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts
3.NF.3.b.	Recognize and generate simple equivalent fractions (e.g., 1/2 = 2/4, 4/6 = 2/3). Explain why the fractions are equivalent (e.g., by using a visual fraction model).	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts

3.NF.3.c.	Express and model whole numbers as fractions, and recognize and construct fractions that are equivalent to whole numbers. For Example: Express 3 in the form 3 = 3/1; recognize that 6/1 = 6; locate 4/4 and 1 at the same point of a number line diagram.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts
3.NF.3.d.	Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with the symbols >, =, or	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts
AK.3.MD.	**Measurement and Data**	
	Represent and interpret data.	

3.MD.4.	Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step “how many more” and “how many less” problems using information presented in scaled bar graphs. For example, draw a bar graph in which each square in the bar graph might represent 5 pets.	Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9
AK.3.MD.	**Measurement and Data**	
	Geometric measurement: understand concepts of area and relate area to multiplication and to addition.	
3.MD.9.	**Relate area to the operations of multiplication and addition.**	

3.MD.9.b.	Multiply side lengths to find areas of rectangles with whole number side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.	Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit
3.MD.9.c.	Use area models (rectangular arrays) to represent the distributive property in mathematical reasoning. Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths a and b + c is the sum of a × b and a × c.	Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits

AK.3.G.	**Geometry**	
	Reason with shapes and their attributes.	
3.G.2.	Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and describe the area of each part as 1/4 of the area of the shape.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes
Grade: **4** - Adopted: **2012**		
AK.MP.	**Mathematical Practices**	
MP.1.	Make sense of problems and persevere in solving them.	Unit 10: Algebra | Module 1: Operations & Equations Unit 1: Addition & Subtraction Level 1 | Module 5: Fact Families Unit 1: Addition & Subtraction Level 1 | Module 6: Place Value Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction

		Unit 2: Addition & Subtraction Level 2 | Module 1: Counting to 1,000 Unit 2: Addition & Subtraction Level 2 | Module 2: Within 20 Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 3: Division Unit 4: Multiplication & Division Level 1 | Module 4: Strategies Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 4: Division Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations

		Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
MP.2.	Reason abstractly and quantitatively.	Unit 2: Addition & Subtraction Level 2 | Module 1: Counting to 1,000 Unit 2: Addition & Subtraction Level 2 | Module 2: Within 20 Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division

		Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
MP.4.	Model with mathematics.	Unit 1: Addition & Subtraction Level 1 | Module 6: Place Value Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 3: Division Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits

		Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions
MP.5.	Use appropriate tools strategically.	Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
MP.7.	Look for and make use of structure.	Unit 10: Algebra | Module 1: Operations & Equations Unit 1: Addition & Subtraction Level 1 | Module 5: Fact Families Unit 1: Addition & Subtraction Level 1 | Module 6: Place Value Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 1: Counting to 1,000 Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies

		Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 3: Division Unit 4: Multiplication & Division Level 1 | Module 4: Strategies Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 4: Division Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
MP.8.	Look for and express regularity in repeated reasoning.	

		Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 4: Division Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions
AK.4.OA.	**Operations and Algebraic Thinking**	
	Use the four operations with whole numbers to solve problems.	

4.OA.1.	Interpret a multiplication equation as a comparison (e.g., interpret 35 = 5 × 7 as a statement that 35 is 5 groups of 7 and 7 groups of 5). (Commutative property) Represent verbal statements of multiplicative comparisons as multiplication equations.	Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations
4.OA.2.	Multiply or divide to solve word problems involving multiplicative comparison (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem or missing numbers in an array). Distinguish multiplicative comparison from additive comparison.	Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 3: Division Unit 4: Multiplication & Division Level 1 | Module 4: Strategies Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm

		Unit 5: Multiplication & Division Level 2 | Module 4: Division Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations
4.OA.3.	Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	Unit 1: Addition & Subtraction Level 1 | Module 5: Fact Families Unit 1: Addition & Subtraction Level 1 | Module 6: Place Value

		Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 2: Within 20 Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 3: Division Unit 4: Multiplication & Division Level 1 | Module 4: Strategies Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 4: Division Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations

AK.4.OA.	**Operations and Algebraic Thinking**	
	Gain familiarity with factors and multiples.	
4.OA.4.	Find all factor pairs for a whole number in the range 1–100. Explain the correlation/differences between multiples and factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1–100 is prime or composite.	Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors
AK.4.OA.	**Operations and Algebraic Thinking**	
	Generate and analyze patterns.	

4.OA.5.	Generate a number, shape pattern, table, t-chart, or input/output function that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. Be able to express the pattern in algebraic terms. For example, given the rule “Add 3” and the starting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate between odd and even numbers. Explain informally why the numbers will continue to alternate in this way.	Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors

4.OA.6.	Extend patterns that use addition, subtraction, multiplication, division or symbols, up to 10 terms, represented by models (function machines), tables, sequences, or in problem situations. (L)	Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors
AK.4.NBT.	**Number and Operations in Base Ten**	
	Generalize place value understanding for multi-digit whole numbers.	
4.NBT.1.	Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. For example, recognize that 700 ÷ 70 = 10 by applying concepts of place value and division.	

		Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit
4.NBT.2.	Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on the value of the digits in each place, using >, =, and < symbols to record the results of comparisons.	Unit 1: Addition & Subtraction Level 1 | Module 5: Fact Families Unit 1: Addition & Subtraction Level 1 | Module 6: Place Value Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 1: Counting to 1,000 Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100 Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits

		Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations
4.NBT.3.	Use place value understanding to round multi-digit whole numbers to any place using a variety of estimation methods; be able to describe, compare, and contrast solutions.	Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations
AK.4.NBT.	**Number and Operations in Base Ten**	
	Use place value understanding and properties of operations to perform multi-digit arithmetic.	
4.NBT.4.	Fluently add and subtract multi-digit whole numbers using any algorithm. Verify the reasonableness of the results.	Unit 1: Addition & Subtraction Level 1 | Module 7: Strategies Unit 1: Addition & Subtraction Level 1 | Module 8: Mixed Addition & Subtraction Unit 2: Addition & Subtraction Level 2 | Module 2: Within 20 Unit 2: Addition & Subtraction Level 2 | Module 4: Within 100

		Unit 2: Addition & Subtraction Level 2 | Module 5: Strategies Unit 2: Addition & Subtraction Level 2 | Module 6: Three-Digit Numbers Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations
4.NBT.5.	Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	Unit 3: Skip Counting | Module 1: Skip Counting by 2 Unit 3: Skip Counting | Module 2: Skip Counting by 3 Unit 3: Skip Counting | Module 3: Skip Counting by 4 Unit 3: Skip Counting | Module 4: Skip Counting by 5 Unit 3: Skip Counting | Module 5: Skip Counting by 6 Unit 3: Skip Counting | Module 6: Skip Counting by 7 Unit 3: Skip Counting | Module 7: Skip Counting by 8 Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit

		Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations
4.NBT.6.	Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 5: Multiplication & Division Level 2 | Module 4: Division Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice

		Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit
AK.4.NF.	**Number and Operations –Fractions**	
	Extend understanding of fraction equivalence and ordering.	
4.NF.1.	Explain why a fraction a/b is equivalent to a fraction (n × a)/(n × b) by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions

4.NF.2.	Compare two fractions with different numerators and different denominators (e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as 1/2). Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
AK.4.NF.	**Number and Operations –Fractions**	
	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	
4.NF.3.	**Understand a fraction a/b with a > 1 as a sum of fractions 1/b.**	
4.NF.3.a.	Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review

4.NF.3.c.	Add and subtract mixed numbers with like denominators (e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction).	Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
4.NF.3.d.	Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators (e.g., by using visual fraction models and equations to represent the problem).	Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
AK.4.NF.	**Number and Operations –Fractions**	
	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	

4.NF.4.	**Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.**	
4.NF.4.a.	Understand a fraction a/b as a multiple of 1/b. For example, use a visual fraction model to represent 5/4 as the product 5 × (1/4), recording the conclusion by the equation 5/4 = 5 × (1/4).	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
4.NF.4.b.	Understand a multiple of a/b as a multiple of 1/b, and use this understanding to multiply a fraction by a whole number. For example, use a visual fraction model to express 3 × (2/5) as 6 × (1/5), recognizing this product as 6/5. (In general, n × (a/b) = (n × a)/b.)	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application

4.NF.4.c.	Solve word problems involving multiplication of a fraction by a whole number (e.g., by using visual fraction models and equations to represent the problem). Check for the reasonableness of the answer. For example, if each person at a party will eat 3/8 of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application
AK.4.NF.	**Number and Operations –Fractions**	
	Understand decimal notation for fractions, and compare decimal fractions.	
4.NF.7.	Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, or	Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review

AK.4.MD.	**Measurement and Data**	
	Geometric measurement: understand concepts of angle and measure angles.	
4.MD.7.	**Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand the following concepts of angle measurement:**	
4.MD.7.a.	An angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle. An angle that turns through 1/360 of a circle is called a “one-degree angle,” and can be used to measure angles.	Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
4.MD.7.b.	An angle that turns through n one-degree angles is said to have an angle measure of n degrees.	Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
AK.4.MD.	**Measurement and Data**	
	Geometric measurement: understand concepts of angle and measure angles.	

4.MD.8.	Measure and draw angles in whole-number degrees using a protractor. Estimate and sketch angles of specified measure.	Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
AK.4.G.	**Geometry**	
	Draw and identify lines and angles, and classify shapes by properties of their lines and angles.	
4.G.1.	Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular, parallel, and intersecting line segments. Identify these in two-dimensional (plane) figures.	Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
4.G.3.	Recognize a line of symmetry for a two-dimensional (plane) figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions

AK.MP.	Mathematical Practices	
MP.1.	Make sense of problems and persevere in solving them.	Unit 10: Algebra | Module 1: Operations & Equations Unit 10: Algebra | Module 2: Ratios & Proportions Unit 10: Algebra | Module 4: Expressions Unit 10: Algebra | Module 5: Variables Unit 10: Algebra | Module 6: Patterns & Structure Unit 10: Algebra | Module 7: Geometry Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 3: Division Unit 4: Multiplication & Division Level 1 | Module 4: Strategies Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 4: Division Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit

		Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations Unit 7: Fractions, Decimals & Percents Level 1 | Module 8: Relationships of Fractions, Decimals & Percents Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 3: Addition & Subtraction of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 4: Multiplication & Division of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 5: Percents Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review Unit 9: Measurement, Geometry & Data | Module 4: Perimeter, Area & Volume Unit 9: Measurement, Geometry & Data | Module 5: Time, Money & Distance Unit 9: Measurement, Geometry & Data | Module 6: Units of Measure Unit 9: Measurement, Geometry & Data | Module 7: Data Representation Unit 9: Measurement, Geometry & Data | Module 8: Data Analysis
MP.2.	Reason abstractly and quantitatively.	Unit 10: Algebra | Module 4: Expressions Unit 10: Algebra | Module 5: Variables Unit 10: Algebra | Module 6: Patterns & Structure

		Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 7: Fractions, Decimals & Percents Level 1 | Module 3: Inequalities Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles Unit 9: Measurement, Geometry & Data | Module 4: Perimeter, Area & Volume
MP.4.	Model with mathematics.	Unit 10: Algebra | Module 2: Ratios & Proportions Unit 10: Algebra | Module 4: Expressions Unit 10: Algebra | Module 5: Variables Unit 10: Algebra | Module 6: Patterns & Structure Unit 10: Algebra | Module 7: Geometry Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 3: Division Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication by One Digit Unit 5: Multiplication & Division Level 2 | Module 2: Division by One Digit Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations

		Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 7: Fractions, Decimals & Percents Level 1 | Module 3: Inequalities Unit 7: Fractions, Decimals & Percents Level 1 | Module 4: Mixed Numbers Unit 7: Fractions, Decimals & Percents Level 1 | Module 5: Fractions Review Unit 7: Fractions, Decimals & Percents Level 1 | Module 6: Decimals Unit 7: Fractions, Decimals & Percents Level 1 | Module 7: Percents Unit 7: Fractions, Decimals & Percents Level 1 | Module 8: Relationships of Fractions, Decimals & Percents Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 3: Addition & Subtraction of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 4: Multiplication & Division of Decimals Unit 9: Measurement, Geometry & Data | Module 4: Perimeter, Area & Volume Unit 9: Measurement, Geometry & Data | Module 5: Time, Money & Distance Unit 9: Measurement, Geometry & Data | Module 6: Units of Measure Unit 9: Measurement, Geometry & Data | Module 7: Data Representation Unit 9: Measurement, Geometry & Data | Module 8: Data Analysis
MP.5.	Use appropriate tools strategically.	Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits

		Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles Unit 9: Measurement, Geometry & Data | Module 3: Classification of 2-D Figures
MP.7.	Look for and make use of structure.	Unit 10: Algebra | Module 1: Operations & Equations Unit 10: Algebra | Module 2: Ratios & Proportions Unit 10: Algebra | Module 4: Expressions Unit 10: Algebra | Module 5: Variables Unit 10: Algebra | Module 6: Patterns & Structure Unit 10: Algebra | Module 7: Geometry Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 3: Division Unit 4: Multiplication & Division Level 1 | Module 4: Strategies Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 4: Division Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 1: Relationships of Operations Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits

		Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 7: Fractions, Decimals & Percents Level 1 | Module 3: Inequalities Unit 7: Fractions, Decimals & Percents Level 1 | Module 4: Mixed Numbers Unit 7: Fractions, Decimals & Percents Level 1 | Module 5: Fractions Review Unit 7: Fractions, Decimals & Percents Level 1 | Module 6: Decimals Unit 7: Fractions, Decimals & Percents Level 1 | Module 7: Percents Unit 7: Fractions, Decimals & Percents Level 1 | Module 8: Relationships of Fractions, Decimals & Percents Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 3: Addition & Subtraction of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 4: Multiplication & Division of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 5: Percents Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles Unit 9: Measurement, Geometry & Data | Module 3: Classification of 2-D Figures Unit 9: Measurement, Geometry & Data | Module 4: Perimeter, Area & Volume Unit 9: Measurement, Geometry & Data | Module 5: Time, Money & Distance Unit 9: Measurement, Geometry & Data | Module 6: Units of Measure Unit 9: Measurement, Geometry & Data | Module 7: Data Representation

		Unit 9: Measurement, Geometry & Data | Module 8: Data Analysis
MP.8.	Look for and express regularity in repeated reasoning.	Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 4: Division Using the Algorithm Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 2: Two–Four Digits by One Digit Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations Unit 7: Fractions, Decimals & Percents Level 1 | Module 8: Relationships of Fractions, Decimals & Percents Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 3: Addition & Subtraction of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 4: Multiplication & Division of Decimals Unit 9: Measurement, Geometry & Data | Module 6: Units of Measure
AK.5.OA.	**Operations and Algebraic Thinking**	
	Write and interpret numerical expressions.	

5.OA.1.	Use parentheses to construct numerical expressions, and evaluate numerical expressions with these symbols.	Unit 10: Algebra | Module 1: Operations & Equations
AK.5.OA.	**Operations and Algebraic Thinking**	
	Analyze patterns and relationships.	
5.OA.3.	Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. For example, given the rule “Add 3” and the starting number 0, and given the rule “Add 6” and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.	Unit 10: Algebra | Module 6: Patterns & Structure
AK.5.NBT.	**Number and Operations in Base Ten**	

	Understand the place value system.	
5.NBT.1.	Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	Unit 10: Algebra | Module 1: Operations & Equations Unit 5: Multiplication & Division Level 2 | Module 3: Multiplication Using the Algorithm Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations Unit 7: Fractions, Decimals & Percents Level 1 | Module 6: Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 3: Addition & Subtraction of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 4: Multiplication & Division of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application
5.NBT.2.	Explain and extend the patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain and extend the patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	Unit 10: Algebra | Module 6: Patterns & Structure Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits

AK.5.NBT.	**Number and Operations in Base Ten**	
	Understand the place value system.	
5.NBT.3.	**Read, write, and compare decimals to thousandths.**	
5.NBT.3.a.	Read and write decimals to thousandths using base-ten numerals, number names, and expanded form [e.g., 347.392 = 3 x 100 + 4 x 10 + 7 x 1 + 3 (1/10) + 9 (1/100) + 2 (1/1000)].	Unit 7: Fractions, Decimals & Percents Level 1 | Module 6: Decimals Unit 7: Fractions, Decimals & Percents Level 1 | Module 7: Percents
5.NBT.3.b.	Compare two decimals to thousandths place based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 6: Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 3: Addition & Subtraction of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 4: Multiplication & Division of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
AK.5.NBT.	**Number and Operations in Base Ten**	
	Understand the place value system.	

5.NBT.4.	Use place values understanding to round decimals to any place.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 6: Decimals Unit 7: Fractions, Decimals & Percents Level 1 | Module 8: Relationships of Fractions, Decimals & Percents Unit 8: Fractions, Decimals & Percents Level 2 | Module 5: Percents Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
AK.5.NBT.	**Number and Operations in Base Ten**	
	Perform operations with multi-digit whole numbers and with decimals to hundredths.	
5.NBT.5.	Fluently multiply multi-digit whole numbers using a standard algorithm.	Unit 5: Multiplication & Division Level 2 | Module 5: Multiplication by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations

5.NBT.6.	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, number lines, real life situations, and/or area models.	Unit 5: Multiplication & Division Level 2 | Module 6: Division by Two Digits Unit 5: Multiplication & Division Level 2 | Module 7: Mixed Practice Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 6: Mixed Operations with Whole Numbers | Module 4: Three–Four Digits by Three Digits Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits Unit 6: Mixed Operations with Whole Numbers | Module 6: Mixed Practice with Operations

5.NBT.7.	Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between the operations. Relate the strategy to a written method and explain their reasoning in getting their answers.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 3: Addition & Subtraction of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 4: Multiplication & Division of Decimals Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
AK.5.NF.	**Number and Operations –Fractions**	
	Use equivalent fractions as a strategy to add and subtract fractions.	

5.NF.1.	Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. For example, 2/3 + 5/4 = 8/12 + 15/12 = 23/12. (In general, a/b + c/d = (ad + bc)/bd.)	Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
5.NF.2.	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models or equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and check the reasonableness of answers. For example, recognize an incorrect result 2/5 + 1/2 = 3/7, by observing that 3/7 < 1/2.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 1: Addition & Subtraction of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
AK.5.NF.	**Number and Operations –Fractions**	

	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	
5.NF.3.	Interpret a fraction as division of the numerator by the denominator (a/b = a ÷ b). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers (e.g., by using visual fraction models or equations to represent the problem). For example, interpret 3/4 as the result of dividing 3 by 4, noting that 3/4 multiplied by 4 equals 3, and that when 3 wholes are shared equally among 4 people each person has a share of size 3/4. If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?	Unit 10: Algebra | Module 5: Variables Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts Unit 7: Fractions, Decimals & Percents Level 1 | Module 3: Inequalities Unit 7: Fractions, Decimals & Percents Level 1 | Module 4: Mixed Numbers Unit 7: Fractions, Decimals & Percents Level 1 | Module 5: Fractions Review Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
AK.5.NF.	**Number and Operations –Fractions**	
	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	

5.NF.4.	**Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.**	
5.NF.4.a.	Interpret the product (a/b) × q as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations a × q ÷ b. For example, use a visual fraction model to show (2/3) × 4 = 8/3, and create a story context for this equation. Do the same with (2/3) × (4/5) = 8/15. (In general, (a/b) × (c/d) = ac/bd.)	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
5.NF.4.b.	Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
AK.5.NF.	**Number and Operations –Fractions**	
	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	

5.NF.5.	**Interpret multiplication as scaling (resizing), by:**	
5.NF.5.a.	Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors Unit 4: Multiplication & Division Level 1 | Module 6: Mixed Multiplication & Division
AK.5.NF.	**Number and Operations –Fractions**	
	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	
5.NF.6.	Solve real world problems involving multiplication of fractions and mixed numbers (e.g., by using visual fraction models or equations to represent the problem).	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
AK.5.NF.	**Number and Operations –Fractions**	
	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	
5.NF.7.	**Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.**	

5.NF.7.a.	Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. For example, create a story context for (1/3) ÷ 4, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that (1/3) ÷ 4 = 1/12 because (1/12) × 4 = 1/3.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions
5.NF.7.b.	Interpret division of a whole number by a unit fraction, and compute such quotients. For example, create a story context for 4 ÷ (1/5), and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that 4 ÷ (1/5) = 20 because 20 × (1/5) = 4.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions

5.NF.7.c.	Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions (e.g., by using visual fraction models and equations to represent the problem). For example, how much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 1/3-cup servings are in 2 cups of raisins?	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions
AK.5.MD.	**Measurement and Data**	
	Convert like measurement units within a given measurement system and solve problems involving time.	

5.MD.1.	Identify, estimate measure, and convert equivalent measures within systems English length (inches, feet, yards, miles) weight (ounces, pounds, tons) volume (fluid ounces, cups, pints, quarts, gallons) temperature (Fahrenheit) Metric length (millimeters, centimeters, meters, kilometers) volume (milliliters, liters), temperature (Celsius), (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems using appropriate tools.	Unit 9: Measurement, Geometry & Data | Module 6: Units of Measure
AK.5.MD.	**Measurement and Data**	
	Represent and interpret data.	
5.MD.3.	Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.	Unit 9: Measurement, Geometry & Data | Module 7: Data Representation Unit 9: Measurement, Geometry & Data | Module 8: Data Analysis

5.MD.4.	Explain the classification of data from real-world problems shown in graphical representations including the use of terms mean and median with a given set of data. (L)	Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 9: Measurement, Geometry & Data | Module 8: Data Analysis
AK.5.MD.	**Measurement and Data**	
	Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.	
5.MD.5.	**Recognize volume as an attribute of solid figures and understand concepts of volume measurement.**	
5.MD.5.a.	A cube with side length 1 unit, called a “unit cube,” is said to have “one cubic unit” of volume, and can be used to measure volume.	Unit 9: Measurement, Geometry & Data | Module 4: Perimeter, Area & Volume
5.MD.5.b.	A solid figure that can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.	Unit 9: Measurement, Geometry & Data | Module 4: Perimeter, Area & Volume
AK.5.MD.	**Measurement and Data**	

	Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.	
5.MD.6.	Estimate and measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and non-standard units.	Unit 9: Measurement, Geometry & Data | Module 4: Perimeter, Area & Volume
AK.5.MD.	**Measurement and Data**	
	Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.	
5.MD.7.	**Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.**	

5.MD.7.a.	Estimate and find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Demonstrate the associative property of multiplication by using the product of three whole-numbers to find volumes (length x width x height).	Unit 10: Algebra | Module 7: Geometry
5.MD.7.b.	Apply the formulas V = l × w × h and V = b × h for rectangular prisms to find volumes of right rectangular prisms with whole number edge lengths in the context of solving real world and mathematical problems.	Unit 10: Algebra | Module 4: Expressions Unit 10: Algebra | Module 7: Geometry Unit 9: Measurement, Geometry & Data | Module 4: Perimeter, Area & Volume
AK.5.G.	**Geometry**	
	Graph points on the coordinate plane to solve real-world and mathematical problems.	

5.G.1.	Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate).	Unit 9: Measurement, Geometry & Data | Module 7: Data Representation
5.G.2.	Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	Unit 10: Algebra | Module 2: Ratios & Proportions Unit 10: Algebra | Module 4: Expressions Unit 10: Algebra | Module 7: Geometry

		Unit 9: Measurement, Geometry & Data | Module 7: Data Representation
AK.5.G.	**Geometry**	
	Classify two-dimensional (plane) figures into categories based on their properties.	
5.G.3.	Understand that attributes belonging to a category of two dimensional (plane) figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles.	Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 3: Classification of 2-D Figures
5.G.4.	Classify two-dimensional (plane) figures in a hierarchy based on attributes and properties.	Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 3: Classification of 2-D Figures