TOUCHMATH®

Georgia Standards of Excellence

Subject: Mathematics

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

Grade: **K** - Adopted: **2021**

STANDARD	NAME	TOUCHMATH UNITS AND MODULES
	NUMERICAL REASONING – counting, money, place value, numbers to 20,	
K.NR.1:	**Demonstrate and explain the relationship between numbers and quantities up to 20; connect counting to cardinality (the last number counted**	
K.NR.1.1.	Count up to 20 objects in a variety of structured arrangements and up to 10 objects in a scattered arrangement.	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 5: Word Problems Unit 3: Number & Operations Level 3 | Module 6: Counting Unit 4: Measurement, Geometry, & Data | Module 2: Sorting & Classifying
K.NR.1.2.	When counting objects, explain that the last number counted represents the total quantity in a set (cardinality),	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 3: Number & Operations Level 3 | Module 2: Numbers 10-15
K.NR.1.3.	Given a number from 1-20, identify the number that is one more or one less.	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
	Kindergarten	
	NUMERICAL REASONING – counting, money, place value, numbers to 20,	

K.NR.2:	**Use count sequences within 100 to count forward and backward in**	
K.NR.2.1.	Count forward to 100 by tens and ones and backward from 20 by ones.	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 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
K.NR.2.2.	Count forward beginning from any number within 100 and count backward	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 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
	Kindergarten	
	NUMERICAL REASONING – counting, money, place value, numbers to 20,	

K.NR.3:	**Use place value understanding to compose and decompose numbers**	
K.NR.3.1.	Describe numbers from 11 to 19 by composing (putting together) and decomposing (breaking apart) the	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 Unit 3: Number & Operations Level 3 | Module 6: Counting
	Kindergarten	
	NUMERICAL REASONING – counting, money, place value, numbers to 20,	
K.NR.4:	**Identify, write, represent, and compare numbers up to 20.**	
K.NR.4.1.	Identify written numerals 0-20 and represent a number of objects with a written numeral 0-20 (with 0	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
K.NR.4.2.	Compare two sets of up to 10 objects and identify whether the number of objects in one group is more or less than the other group, using the words	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 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
STANDARD	**NAME**	**TOUCHMATH UNITS AND MODULES**
	NUMERICAL REASONING – counting, money, place value, numbers to 20,	
K.NR.5:	**Explain the concepts of addition, subtraction, and equality and use these concepts to solve real-life problems**	
K.NR.5.1.	Compose (put together) and decompose (break apart) numbers up	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.NR.5.2.	Represent addition and subtraction within 10 from a given authentic situation using a variety of	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
K.NR.5.3.	Use a variety of strategies to solve addition and subtraction 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 5: Word Problems

K.NR.5.4.	Fluently add and subtract within 5 using a variety of strategies to solve practical,	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
	MEASUREMENT & DATA REASONING – attributes of objects, classifying	
K.MDR.7:	**Observe, describe, and compare the physical and measurable attributes of objects and analyze graphical displays**	
K.MDR.7.1.	Directly compare, describe, and order common objects, using measurable attributes (length, height, width, or	Unit 4: Measurement, Geometry, & Data | Module 1: Describing Length Unit 4: Measurement, Geometry, & Data | Module 2: Sorting & Classifying
K.MDR.7.2.	Classify and sort up to ten objects into categories by an attribute; count the number of objects in each category and	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 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 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
	GEOMETRIC & SPATIAL REASONING – 2D and 3D shapes, relative locations,	
K.GSR.8:	**Identify, describe, and compare basic shapes encountered in the environment, and form two-**	
K.GSR.8.1.	Identify, sort, classify, analyze, and compare two-dimensional shapes and three-dimensional figures, in different sizes and orientations, using informal language to describe their similarities,	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.GSR.8.2.	Describe the relative location of an object using positional words.	Unit 4: Measurement, Geometry, & Data | Module 6: Shapes in the Environment
K.GSR.8.3.	Use basic shapes to represent specific shapes found in the environment by	Unit 4: Measurement, Geometry, & Data | Module 6: Shapes in the Environment
K.GSR.8.4.	Use two or more basic shapes to form	Unit 4: Measurement, Geometry, & Data | Module 4: 2-D Shapes

Grade: **1** - Adopted: **2021**		
STANDARD	**NAME**	**TOUCHMATH UNITS AND MODULES**
	NUMERICAL REASONING – counting, numbers, equality, place value, addition, subtraction	
1.NR.1:	**Extend the count sequence to 120. Read, write, and represent numerical values to 120 and compare numerical values to 100.**	
1.NR.1.1.	Count within 120, forward and backward, starting at any number. In this range, read and write 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 5: Subtraction within 9 Unit 2: Numbers & Operations Level 2 | Module 4: Backward Counting Unit 2: Numbers & Operations Level 2 | Module 5: Subtraction within 20 Unit 3: Numbers & Operations Level 3 | Module 1: Place Value
1.NR.1.2.	Explain that the two digits of a 2-digit number represent the amounts of tens and 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.NR.1.3.	Compare and order whole numbers up to 100 using concrete models, drawings, and the symbols >, =, and <.	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
	NUMERICAL REASONING – counting, numbers, equality, place value, addition, subtraction	
1.NR.2:	**Explain the relationship between addition and subtraction and apply the properties of operations to solve real-life addition and subtraction problems within 20.**	
1.NR.2.1.	Use a variety of strategies to solve addition and subtraction problems within 20.	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 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.NR.2.2.	Use pictures, drawings, and equations to develop strategies for addition and subtraction within 20 by exploring strings of related problems.	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 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.NR.2.3.	Recognize the inverse relationship between subtraction and addition within 20 and use this inverse relationship to solve authentic problems.	

		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 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.NR.2.4.	Fluently add and subtract within 10 using a variety of strategies.	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 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.NR.2.5.	Use the meaning of the equal sign to determine whether equations involving addition and subtraction are true or false.	Unit 1: Numbers & Operations Level 1 | Module 2: TouchPoints 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 7: Within 100
1.NR.2.6.	Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers.	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
1.NR.2.7.	Apply properties of operations as strategies to solve addition and subtraction problem situations within 20.	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 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
	PATTERNING & ALGEBRAIC REASONING – repeating patterns, growing, patterns, and shrinking patterns	
1.PAR.3:	**Identify, describe, extend, and create repeating patterns, growing patterns, and shrinking patterns found in real-life situations.**	
1.PAR.3.1.	MA about repeating patterns with a core of up to 3 elements resulting from repeating an operation, as a series of shapes, or a number string.	Unit 2: Numbers & Operations Level 2 | Module 4: Backward Counting Unit 3: Numbers & Operations Level 3 | Module 1: Place Value

	GEOMETRIC & SPATIAL REASONING – shapes, attributes, partitions of circles and rectangles	
1.GSR.4:	**Compose shapes, analyze the attributes of shapes, and relate their parts to the whole.**	
1.GSR.4.1.	Identify common two-dimensional shapes and three-dimensional figures, sort and classify them by their attributes and build and draw shapes that possess defining attributes.	Unit 4: Measurement, Geometry & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry & Data | Module 5: 3-D Shapes
1.GSR.4.2.	Compose two-dimensional shapes (rectangles, squares, triangles, half-circles, and quarter-circles) and three-dimensional figures (cubes, rectangular prisms, cones, and cylinders) to create a shape formed of two or more common shapes 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.GSR.4.3.	Partition circles and rectangles into two and four equal shares.	Unit 4: Measurement, Geometry & Data | Module 4: 2-D Shapes Unit 4: Measurement, Geometry & Data | Module 6: Fractional Parts of Shapes

	NUMERICAL REASONING – base ten structure, addition and subtraction within 100	
1.NR.5:	**Use concrete models, the base ten structure, and properties of operations to add and subtract within 100.**	
1.NR.5.1.	Use a variety of strategies to solve applicable, mathematical addition and subtraction problems with one- and two-digit whole numbers.	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 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
	NUMERICAL REASONING – base ten structure, addition and subtraction within 101	
1.NR.5:	**Use concrete models, the base ten structure, and properties of operations to add and subtract within 100.**	

1.NR.5.2.	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 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
	NUMERICAL REASONING – base ten structure, addition and subtraction within 102	
1.NR.5:	**Use concrete models, the base ten structure, and properties of operations to add and subtract within 100.**	
1.NR.5.3.	Add and subtract multiples of 10 within 100.	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 5: Subtraction within 100 Unit 3: Numbers & Operations Level 3 | Module 6: Subtraction Strategies Unit 3: Numbers & Operations Level 3 | Module 7: Within 100
	MEASUREMENT & DATA REASONING – length, time, money	

1.MDR.6:	**Use appropriate tools to measure, order, and compare intervals of length and time, as well as denominations of money to solve real-life, mathematical problems and answer relevant questions.**	
1.MDR.6.1.	Estimate, measure, and record lengths of objects using non-standard units, and compare and order up to three objects using the recorded measurements. Describe the objects compared.	Unit 4: Measurement, Geometry & Data | Module 2: Length
1.MDR.6.2.	Tell and write time in hours and half-hours using analog and digital clocks, and measure elapsed time to the hour on the hour using a predetermined number line.	Unit 4: Measurement, Geometry & Data | Module 1: Time & Money
1.MDR.6.3.	Identify the value of quarters and compare the values of pennies, nickels, dimes, and quarters.	Unit 4: Measurement, Geometry & Data | Module 1: Time & Money
1.MDR.6.4.	Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to compare and order whole numbers.	

		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
Grade: **2** - Adopted: **2021**		
STANDARD	**NAME**	**TOUCHMATH UNITS AND MODULES**
	NUMERICAL REASONING – counting within 1000, place value, addition and subtraction, fluency to 20, developing multiplication through arrays	
2.NR.1:	**Using the place value structure, explore the count sequences to represent, read, write, and compare numerical values to 1000 and describe basic place-value relationships and structures.**	
2.NR.1.1.	Explain the value of a three-digit number using hundreds, tens, and ones in a variety of ways.	Unit 2: Addition & Subtraction Level 2 | Module 1: Place Value

2.NR.1.2.	Count forward and backward by ones from any number within 1000. Count forward by fives from multiples of 5 within 1000. Count forward and backward by 10s and 100s from any number within 1000. Count forward by 25s from 0.	Unit 1: Addition & Subtraction Level 1 | Module 3: Backward Counting 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.NR.1.3.	Represent, compare, and order whole numbers to 1000 with an emphasis on place value and equality. Use >, =, and < symbols to record the results of comparisons.	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

	NUMERICAL REASONING – counting within 1000, place value, addition and subtraction, fluency to 20, developing multiplication through arrays	
2.NR.2:	**Apply multiple part-whole strategies, properties of operations and place value understanding to solve real-life, mathematical problems involving addition and subtraction within 1,000.**	
2.NR.2.1.	Fluently add and subtract within 20 using a variety of mental, part-whole strategies.	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
2.NR.2.2.	Find 10 more or 10 less than a given three-digit number and find 100 more or 100 less than a given three-digit number.	

		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 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 4: Mixed Operations
2.NR.2.3.	Solve problems involving the addition and subtraction of two-digit numbers using part-whole strategies.	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
2.NR.2.4.	Fluently add and subtract within 100 using 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
	NUMERICAL REASONING – counting within 1000, place value, addition and subtraction, fluency to 20, developing multiplication through arrays	
2.NR.3:	**Work with equal groups to gain foundations for multiplication through real-life, mathematical problems.**	
2.NR.3.1.	Determine whether a group (up to 20) has an odd or even number of objects. Write an equation to express an even number as a sum of two equal addends.	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 5: Multiplication 1

2.NR.3.2.	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 a sum of equal addends.	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 6: Multiplication 2 Unit 4: Measurement, Geometry & Data | Module 6: Geometry
	PATTERNING & ALGEBRAIC REASONING – patterns up to 20 and addition and subtraction within 1,000	
2.PAR.4:	**Identify, describe, extend, and create repeating patterns, growing patterns, and shrinking patterns.**	
2.PAR.4.1.	Identify, describe, and create a numerical pattern resulting from repeating an operation such as addition and subtraction.	Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100

	PATTERNING & ALGEBRAIC REASONING – patterns up to 20 and addition and subtraction within 1,001	
2.PAR.4:	**Identify, describe, extend, and create repeating patterns, growing patterns, and shrinking patterns.**	
2.PAR.4.2.	Identify, describe, and create growing patterns and shrinking patterns involving addition and subtraction up to 20.	Unit 2: Addition & Subtraction Level 2 | Module 6: Within 100 Unit 3: Operations with Multi-Digit Numbers | Module 1: Multiples of 10 & 100
	MEASUREMENT & DATA REASONING – length, distance, time, and money	
2.MDR.5:	**Estimate and measure the lengths of objects and distance to solve problems found in real-life using standard units of measurement, including inches, feet, and yards.**	
2.MDR.5.2.	Estimate and measure the length of an object or distance to the nearest whole unit using appropriate units and standard measuring tools.	Unit 4: Measurement, Geometry & Data | Module 3: Data Unit 4: Measurement, Geometry & Data | Module 4: Measurement
2.MDR.5.3.	Measure to determine how much longer one object is than another and express the length 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
2.MDR.5.5.	Represent whole-number sums and differences within a standard unit of measurement on a number line diagram.	Unit 4: Measurement, Geometry & Data | Module 5: Operations with Length
	MEASUREMENT & DATA REASONING – length, distance, time, and money	
2.MDR.6:	**Solve real-life problems involving time and money.**	
2.MDR.6.1.	Tell and write time from analog and digital clocks to the nearest five minutes, and estimate and measure elapsed time using a timeline, to the hour or half hour on the hour or half hour.	Unit 4: Measurement, Geometry & Data | Module 1: Time
2.MDR.6.2.	Find the value of a group of coins and determine combinations of coins that equal a given amount that is less than one hundred cents, and solve problems involving dollar bills, quarters, dimes, nickels, and pennies, using $ and ¢ symbols appropriately.	Unit 4: Measurement, Geometry & Data | Module 2: Money

	GEOMETRIC & SPATIAL REASONING – sorting shapes, lines of symmetry, partitioning circles and rectangles	
2.GSR.7:	**Draw and partition shapes and other objects with specific attributes and conduct observations of everyday items and structures to identify how shapes exist in the world.**	
2.GSR.7.1.	Describe, compare and sort 2-D shapes including polygons, triangles, quadrilaterals, pentagons, hexagons, and 3-D shapes including rectangular prisms and cones, given a set of attributes.	Unit 4: Measurement, Geometry & Data | Module 6: Geometry
2.GSR.7.3.	Partition circles and rectangles into two, three, or four equal shares. Identify and describe equal-sized parts of the whole using fractional names (“halves,” “thirds,” “fourths”, “half of,” “third of,” “quarter of,” etc.).	Unit 4: Measurement, Geometry & Data | Module 6: Geometry
Grade: **3** - Adopted: **2021**		
STANDARD	**NAME**	**TOUCHMATH UNITS AND MODULES**
	NUMERICAL REASONING – base ten numerals and place value up to 10,000, and rounding up to 1,000	

3.NR.1:	**Use place value reasoning to represent, read, write, and compare numerical values up to 10,000 and round whole numbers up to 1,000.**	
3.NR.1.1.	Read and write multi-digit whole numbers up to 10,000 using base-ten numerals and expanded form.	Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value
3.NR.1.2.	Use place value reasoning to compare multi-digit numbers up to 10,000, using >, =, and < symbols to record the results of comparisons.	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 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 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.NR.1.3.	Use place value understanding to round whole numbers up to 1000 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
	PATTERNING & ALGEBRAIC REASONING – fluency, addition and subtraction within 10,000, multiplication and division within 100, equality, properties of operations	
3.PAR.2:	**Use part-whole strategies to represent and solve real-life problems involving addition and subtraction with whole numbers within 10,000.**	
3.PAR.2.1.	Fluently add and subtract within 1000 to solve problems.	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.PAR.2.2.	Apply part-whole strategies, properties of operations and place value understanding, to solve problems involving addition and subtraction within 10,000. Represent these problems using equations with a letter standing for the unknown quantity. Justify solutions.	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
	PATTERNING & ALGEBRAIC REASONING – fluency, addition and subtraction within 10,000, multiplication and division within 100, equality, properties of operations	
3.PAR.3:	**Use part-whole strategies to solve real-life, mathematical problems involving multiplication and division with whole numbers within 100.**	
3.PAR.3.1.	Describe, extend, and create numeric patterns related to multiplication. Make predictions related to the patterns.	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

3.PAR.3.2.	Represent single digit multiplication and division facts using a variety of strategies. Explain the relationship between multiplication and 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 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
3.PAR.3.3.	Apply properties of operations (i.e., commutative property, associative property, distributive property) to multiply and divide within 100.	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 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

3.PAR.3.5.	Use place value reasoning and properties of operations to multiply one-digit whole numbers by multiples of 10, in the range 10-90.	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 7: Skip Counting by 8 Unit 5: Multiplication & Division Level 2 | Module 1: Multiplication 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
3.PAR.3.6.	Solve practical, relevant problems involving multiplication and division within 100 using part-whole strategies, visual representations, and/or concrete models.	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.PAR.3.7.	Use multiplication and division to solve problems involving whole numbers to 100. Represent these problems using equations with a letter standing for the unknown quantity. Justify solutions.	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

	NUMERICAL REASONING – unit fractions, equivalent fractions, fractions greater than 1	
3.NR.4:	**Represent fractions with denominators of 2, 3, 4, 6 and 8 in multiple ways within a framework using visual models.**	
3.NR.4.1.	Describe a unit fraction and explain how multiple copies of a unit fraction form a non-unit fraction. Use parts of a whole, parts of a set, points on a number line, distances on a number line and area models.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts
3.NR.4.2.	Compare two unit fractions by flexibly using a variety of tools and strategies.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts
3.NR.4.3.	Represent fractions, including fractions greater than one, in multiple ways.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 7: Fractions, Decimals & Percents Level 1 | Module 2: Application of Concepts
3.NR.4.4.	Recognize and generate simple 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
	GEOMETRIC & SPATIAL REASONING – polygons, parallel line segments, perpendicular line segments, right angles, lines of symmetry, area, perimeter	

3.GSR.6:	**Identify the attributes of polygons, including parallel segments, perpendicular segments, right angles, and symmetry.**	
3.GSR.6.2.	Classify, compare, and contrast polygons, with a focus on quadrilaterals, based on properties. Analyze specific 3-dimensional figures to identify and describe quadrilaterals as faces of these figures.	Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes
3.GSR.6.3.	Identify lines of symmetry in polygons.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions
Grade: **4** - Adopted: **2021**		
STANDARD	**NAME**	**TOUCHMATH UNITS AND MODULES**
	NUMERICAL REASONING – place value, rounding, comparisons with multi-digit numbers, addition and subtraction, multiplicative comparisons, multiplication, and division involving whole numbers	
4.NR.1:	**Recognize patterns within the base ten place value system with quantities presented in real-life situations to compare and round multi-digit whole numbers through the hundred-thousands place.**	

4.NR.1.1.	Read and write multi-digit whole numbers to the hundred-thousands place using base-ten numerals and expanded form.	Unit 2: Addition & Subtraction Level 2 | Module 3: Place Value Unit 6: Mixed Operations with Whole Numbers | Module 5: Four Digits
4.NR.1.3.	Use place value reasoning to represent, compare, and order multi-digit numbers, 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 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.NR.1.4.	Use place value understanding to round multi-digit whole numbers.	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
	NUMERICAL REASONING – place value, rounding, comparisons with multi-digit numbers, addition and subtraction, multiplicative comparisons, multiplication, and division involving whole numbers	
4.NR.2:	**Using part-whole strategies, solve problems involving addition and subtraction through the hundred-thousands place, as well as multiplication and division of multi-digit whole numbers presented in real-life, mathematical situations.**	
4.NR.2.1.	Fluently add and subtract multi-digit numbers to solve practical, mathematical problems using place value understanding, properties of operations, and relationships between operations.	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 6: Mixed Multiplication & Division

		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.NR.2.3.	Solve relevant problems involving multiplication of a number with up to four digits by a 1-digit whole number or involving multiplication of 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 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 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 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.NR.2.4.	Solve authentic division problems involving up to 4-digit dividends and 1-digit divisors (including whole number quotients with remainders) using strategies based on place-value understanding, properties of operations, and the relationships between operations.	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 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 6: Mixed Practice with Operations
4.NR.2.5.	Solve multi-step problems using addition, subtraction, multiplication, and division involving whole numbers. Use mental computation and estimation strategies to justify the reasonableness of solutions.	Unit 4: Multiplication & Division Level 1 | Module 2: Multiplication
	PATTERNING & ALGEBRAIC REASONING – patterns, input-output tables, factors, multiples, composite numbers, prime numbers	
4.PAR.3:	**Generate and analyze patterns, including those involving shapes, input/output diagrams, factors, multiples, prime numbers, and composite numbers.**	
4.PAR.3.1.	Generate both number and shape patterns that follow a provided rule.	Unit 2: Addition & Subtraction Level 2 | Module 1: Counting to 1,000 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.PAR.3.2.	Use input-output rules, tables, and charts to represent and describe patterns, find relationships, and solve problems.	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.PAR.3.3.	Find factor pairs in the range 1–100 and find multiples of single-digit numbers up to 100.	Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors

4.PAR.3.4.	Identify composite numbers and prime numbers and explain the relationship with the factor pairs.	Unit 3: Skip Counting | Module 8: Skip Counting by 9 Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors
	NUMERICAL REASONING – fraction equivalence, comparison of fractions, and addition and subtraction of fractions with like denominators	
4.NR.4:	**Solve real-life problems involving addition, subtraction, equivalence, and comparison of fractions with denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100 using part-whole strategies and visual models.**	
4.NR.4.1.	Using concrete materials, drawings, and number lines, demonstrate and explain the relationship between equivalent fractions, including fractions greater than one, and explain the identity property of multiplication as it relates to equivalent fractions. Generate equivalent fractions using these relationships.	Unit 4: Multiplication & Division Level 1 | Module 4: Strategies 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 10: Algebra | Module 1: Operations & Equations
4.NR.4.2.	Compare two fractions with the same numerator or the same denominator by reasoning about their size and recognize that comparisons are valid only when the two fractions refer to the same whole.	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

		Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
4.NR.4.3.	Compare two fractions with different numerators and/or different denominators by flexibly using a variety of tools and strategies and recognize that comparisons are valid only when the two fractions refer to the same whole.	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
4.NR.4.6.	Add and subtract fractions and mixed numbers with like denominators using a variety of tools.	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
	NUMERICAL REASONING – fraction equivalence, comparison of fractions, and addition and subtraction of fractions with like denominators	
4.NR.5:	**Solve real-life problems involving addition, equivalence, comparison of fractions with denominators of 10 and 100, and comparison of decimal numbers as tenths and hundredths using part-whole strategies and visual models.**	
4.NR.5.1.	Demonstrate and explain the concept of equivalent fractions with denominators of 10 and 100, using concrete materials and visual models. Add two fractions with denominators of 10 and 100.	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.NR.5.3.	Compare two decimal numbers to the hundredths place by reasoning about their size. 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
	GEOMETRIC & SPATIAL REASONING – polygons, points, lines, line segments, rays, angles, perpendicular lines, area, perimeter	
4.GSR.7:	**Investigate the concepts of angles and angle measurement to estimate and measure angles.**	
4.GSR.7.1.	Recognize angles as geometric shapes formed when two rays share a common endpoint. Draw right, acute, and obtuse angles based on the relationship of the angle measure to 90 degrees.	Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
4.GSR.7.2.	Measure angles in reference to a circle with the center at the common endpoint of two rays. Determine an angle's measure in relation to the 360 degrees in a circle through division or as a missing factor problem.	Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
	GEOMETRIC & SPATIAL REASONING – polygons, points, lines, line segments, rays, angles, perpendicular lines, area, perimeter	
4.GSR.8:	**Identify and draw geometric objects, classify polygons based on properties, and solve problems involving area and perimeter of rectangular figures.**	

4.GSR.8.1.	Explore, investigate, and draw points, lines, line segments, rays, angles (right, acute, obtuse), perpendicular lines, parallel lines, and lines of symmetry. Identify these in two-dimensional figures.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 1: Understanding Fractions Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 2: Lines & Angles
4.GSR.8.2.	Classify, compare, and contrast polygons based on lines of symmetry, the presence or absence of parallel or perpendicular line segments, or the presence or absence of angles of a specified size and based on side lengths.	Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes
Grade: **5** - Adopted: **2021**		
STANDARD	**NAME**	**TOUCHMATH UNITS AND MODULES**
	NUMERICAL REASONING – place value, multiplying by powers of 10, multiplication and division of multi-digit numbers, fractions, decimal numbers, numerical expressions	
5.NR.1:	**Use place value understanding to solve real-life, mathematical problems.**	
5.NR.1.2.	Explain patterns in the placement of digits when multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10, up to 10^3.	Unit 6: Mixed Operations with Whole Numbers | Module 3: Two–Four Digits by Two Digits Unit 10: Algebra | Module 1: Operations & Equations Unit 10: Algebra | Module 6: Patterns & Structure

	NUMERICAL REASONING – place value, multiplying by powers of 10, multiplication and division of multi-digit numbers, fractions, decimal numbers, numerical expressions	
5.NR.2:	**Multiply and divide multi-digit whole numbers to solve relevant, mathematical problems.**	
5.NR.2.1.	Fluently multiply multi-digit (up to 3-digit by 2-digit) whole numbers to solve authentic problems.	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.NR.2.2.	Fluently divide multi-digit whole numbers (up to 4-digit dividends and 2-digit divisors no greater than 25) to solve practical problems.	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
	NUMERICAL REASONING – place value, multiplying by powers of 10, multiplication and division of multi-digit numbers, fractions, decimal numbers, numerical expressions	

5.NR.3:	**Describe fractions and perform operations with fractions to solve relevant, mathematical problems using part-whole strategies and visual models.**	
5.NR.3.1.	Explain the meaning of a fraction as division of the numerator by the denominator (a/b = a ÷ b). Solve problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers.	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 Unit 10: Algebra | Module 5: Variables
5.NR.3.2.	Compare and order up to three fractions with different numerators and/or different denominators by flexibly using a variety of tools and strategies.	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 5: Fractions Review Unit 7: Fractions, Decimals & Percents Level 1 | Module 8: Relationships of Fractions, Decimals & Percents Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 8: Fractions, Decimals & Percents Level 2 | Module 8: Mixed Review
5.NR.3.3.	Model and solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators.	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.NR.3.4.	Model and solve problems involving multiplication of a fraction and a whole number.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application

5.NR.3.5.	Explain why multiplying a whole number by a fraction greater than one results in a product greater than the whole number, and why multiplying a whole number by a fraction less than one results in a product less than the whole number and multiplying a whole number by a fraction equal to one results in a product equal to the whole number.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application
5.NR.3.6.	Model and solve problems involving division of a unit fraction by a whole number and a whole number by a unit fraction.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 2: Multiplication & Division of Fractions
	NUMERICAL REASONING – place value, multiplying by powers of 10, multiplication and division of multi-digit numbers, fractions, decimal numbers, numerical expressions	
5.NR.4:	**Read, write, and compare decimal numbers to the thousandths place, and round and perform operations with decimal numbers to the hundredths place to solve relevant, mathematical problems.**	
5.NR.4.1.	Read and write decimal numbers to the thousandths place using base-ten numerals written in standard form and expanded form.	Unit 7: Fractions, Decimals & Percents Level 1 | Module 6: Decimals Unit 7: Fractions, Decimals & Percents Level 1 | Module 7: Percents

5.NR.4.2.	Represent, compare, and order decimal numbers to the thousandths place based on the 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
5.NR.4.3.	Use place value understanding to round decimal numbers to the hundredths 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
5.NR.4.4.	Solve problems involving addition and subtraction of decimal numbers to the hundredths place using a variety of strategies.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 3: Addition & Subtraction 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
	PATTERNING & ALGEBRAIC REASONING – generating patterns, plotting ordered pairs in the first quadrant	
5.PAR.6:	**Solve relevant problems by creating and analyzing numerical patterns using the given rule(s).**	
5.PAR.6.1.	Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms by completing a table.	Unit 4: Multiplication & Division Level 1 | Module 1: Skip Counting Review Unit 4: Multiplication & Division Level 1 | Module 5: Multiples & Factors Unit 10: Algebra | Module 6: Patterns & Structure

5.PAR.6.2.	Represent problems by plotting ordered pairs and explain coordinate values of points in the first quadrant of the coordinate plane.	Unit 9: Measurement, Geometry & Data | Module 7: Data Representation Unit 10: Algebra | Module 2: Ratios & Proportions Unit 10: Algebra | Module 4: Expressions Unit 10: Algebra | Module 7: Geometry
	MEASUREMENT & DATA REASONING – measurements within the metric system, measurement conversions and time as a unit of measurement	
5.MDR.7:	**Solve problems involving customary measurements, metric measurements, and time and analyze graphical displays of data to answer relevant questions.**	
5.MDR.7.1.	Explore realistic problems involving different units of measurement, including distance, mass, weight, volume, and time.	Unit 8: Fractions, Decimals & Percents Level 2 | Module 6: Mixed Practice Unit 8: Fractions, Decimals & Percents Level 2 | Module 7: Application Unit 9: Measurement, Geometry & Data | Module 5: Time, Money & Distance Unit 9: Measurement, Geometry & Data | Module 6: Units of Measure
5.MDR.7.3.	Convert among units within the metric system and then apply these conversions to solve multi-step, practical problems.	Unit 9: Measurement, Geometry & Data | Module 6: Units of Measure
5.MDR.7.4.	Convert among units within relative sizes of measurement units within the customary measurement system.	Unit 9: Measurement, Geometry & Data | Module 6: Units of Measure
	GEOMETRIC & SPATIAL REASONING – Properties of polygons and rectangular prisms, classify polygons	

5.GSR.8:	**Examine properties of polygons and rectangular prisms, classify polygons by their properties, and discover volume of right rectangular prisms.**	
5.GSR.8.1.	Classify, compare, and contrast polygons based on properties.	Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 3: Classification of 2-D Figures
5.GSR.8.2.	Determine, through exploration and investigation, that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	Unit 9: Measurement, Geometry & Data | Module 1: 2-D Shapes Unit 9: Measurement, Geometry & Data | Module 3: Classification of 2-D Figures
5.GSR.8.3.	Investigate volume of right rectangular prisms by packing them with unit cubes without gaps or overlaps. Then, determine the total volume to solve problems.	Unit 10: Algebra | Module 7: Geometry
5.GSR.8.4.	Discover and explain how the volume of a right rectangular prism can be found by multiplying the area of the base times the height to solve authentic, mathematical problems.	Unit 9: Measurement, Geometry & Data | Module 4: Perimeter, Area & Volume Unit 10: Algebra | Module 4: Expressions Unit 10: Algebra | Module 7: Geometry