

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: K

Subject Area: Mathematics

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Counting & Cardinality MAFS.K.CC.1.1 MAFS.K.CC.1.2 MAFS.K.CC.1.3 MAFS.K.CC.2.4 MAFS.K.CC.2.5 MAFS.K.CC.3.6 MAFS.K.CC.3.7	Cluster 1	___ 1.1 Count to 100 by ones and by tens. ___ 1.2 Count forward in known range beginning from any number. ___ 1.3 Read numerals from 0 to 20. ___ 1.3 Write numerals from 0 to 20. ___ 1.3 Write a stated number 0 to 20 when given verbal name. ___ 1.3 Represent number of objects with a written numeral 0 to 20.			
	Cluster 2	___ 2.4 Count objects accurately by saying one number name for each object in standard order. ___ 2.4 Pair an object(s) with the corresponding number name. ___ 2.4 Pair a number name with the corresponding number of objects. ___ 2.4 Write the number of objects that have been counted. ___ 2.4 Given a row or group of objects and the number, write the number that has one more. ___ 2.4 Count the number for up to 10 objects in any configuration. ___ 2.5 Write the number for up to 20 objects in a circle, line, and array. ___ 2.5 Write the number for up to 20 objects in a scattered configuration			
	Cluster 3	___ 3.6 Identify if the number of objects in a group are greater than, less than and/or equal to the number of objects in another group. ___ 3.6 Compare two groups of up to 10 objects by one-to-one matching. ___ 3.6 Compare two groups of up to 10 objects by counting. ___ 3.7 Compare two numbers between 1 and 10 presented as written numerals.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: K

Subject Area: Mathematics

Quarter: 2

Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Operations and Algebraic Thinking MAFS.K.OA.1.1 MAFS.K.OA.1.2 MAFS.K.OA.1.4 MAFS.K.OA.1.5	Cluster 1	___ 1.1 Represent addition and subtraction with objects, fingers, claps. ___ 1.1 Represent addition and subtraction with drawings. ___ 1.1 Represent addition and subtraction with expressions and equations. ___ 1.1 Represent addition and subtraction with mental images. ___ 1.1 Represent addition and subtraction with verbal explanations. ___ 1.1 Represent addition and subtraction by acting out situations. ___ 1.2 Solve addition and subtraction word problems. ___ 1.2 Add within 10 by using objects or drawings. ___ 1.2 Subtract within 10 by using objects or drawings. ___ 1.4 Decompose numbers to 10 into pairs in more than one way. ___ 1.4 Find missing addends to make 10 by using objects or drawings. ___ 1.5 Fluently add and subtract within 5.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: K

Subject Area: Mathematics

Quarter: 3

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Operations and Algebraic Thinking MAFS.K.OA.1.1a	Cluster 1	___ 1.1.a Solve word problems using objects and drawings to represent the problem. ___ 1.1.a Solve word problems using equations with symbols for the unknown numbers to represent the problem.			
Number & Operations in Base Ten MAFS.K.NBT.1.1	Cluster 1	___ 1.1 Combine a group of 10 objects with a group of up to 9 objects and write the number sentence. ___ 1.1 Separate a group of 11 to 19 objects into 10 and ones, and write the number sentence. ___ 1.1 Write the missing number in a sentence that represents composition or decomposition of 11 to 19. (i.e. $10 + = 14$)			
Geometry MAFS.K.G.1.1 MAFS.K.G.1.2 MAFS.K.G.1.3	Cluster 1	___ 1.1 Identify squares, circles, triangles, rectangles, and hexagons. ___ 1.1 Identify cubes, cones, cylinders, and spheres. ___ 1.1 Describe relative positions of shapes using terms such as above, below, beside, in front of, behind, and next to. ___ 1.2 Understand that a shape can have any orientation or size. ___ 1.3 Identify shapes as flat or solid.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: K

Subject Area: Mathematics

Quarter: 4

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Measurement & Data MAFS.K.MD.1.1 MAFS.K.MD.1.2 MAFS.K.MD.1.a	Cluster 1	___ 1.1 Describe measurable attributes of objects, such as length or weight. ___ 1.1. Describe several measurable attributes of a single object. ___ 1.2 Directly compare objects to see which is taller/shorter. ___ 1.2 Directly compare objects to see which is longer/shorter. ___ 1.2 Directly compare objects to see which is heavier/lighter. ___ 1.a Use smaller objects to measure an item from end to end. ___ 1.a Represent the length of an object as a whole number of length units. ___ 1.a Demonstrate that the length measurement of an object is the number of same size length units that span it with no gaps or overlaps to express length.			
Measurement & Data MAFS.K.MD.2.3	Cluster 2	___ 2.3 Given a group of mixed objects, classify objects into given categories. ___ 2.3 For a group of mixed objects, count and sort objects in a given category. ___ 2.3 Tell which category has the most/least objects.			
Geometry MAFS.K.G.2.4 MAFS.K.G.2.5 MAFS.K.G.2.6	Cluster 2	___ 2.4 Analyze and compare two-dimensional shapes. ___ 2.4 Analyze and compare three-dimensional shapes. ___ 2.4 Describe similarities, differences, parts, number of sides and other attributes of two-dimensional and three-dimensional shapes. ___ 2.5 Build models of two-dimensional (flat) shape using any material. ___ 2.5 Draw two-dimensional (flat) shapes. ___ 2.5 Build simple models of three-dimensional (solid) shapes. ___ 2.6 Combine simple shapes to form a larger or different shape.			

Curriculum Mapping (K-8) by Quarter (Revised 6/14/17)

Grade: 1

Subject Area: Mathematics

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Operations and Algebraic Thinking	Cluster 1	_____ 1.1 Add and subtract within 20 to solve word problems about combining or separating.			
		_____ 1.1 Add and subtract within 20 to solve word problems about comparing.			
		_____ 1.1 Use objects or drawings to represent word problems.			
	Cluster 2	_____ 2.3 demonstrate and explain that adding zero to any number does not change the number.			
		_____ 2.3 demonstrate and explain that when adding numbers in any order, the sum does not change.			
		_____ 2.3 demonstrate and explain how to group two of three addends (when adding three numbers) to create a friendly number making addition easier.			
		_____ 2.4 Relate subtraction to finding a missing addend.			
	Cluster 3	_____ 2.4 Understand subtraction as an unknown-addend problem.			
		_____ 3.5 Add by counting all, counting on, and recognizing + 1 means the next number and + 2 means the number that is two numbers after in the counting sequence.			
		_____ 3.5 Subtract by counting back, counting up from, and recognizing (- 1) means the number before, and (- 2) means the number that is two numbers before in the counting sequence.			
MAFS.1.OA.1.1		_____ 3.5 Identify, describe and use mathematical patterns of adding or subtracting any number up to 20.			
MAFS.1.OA.2.3 MAFS.1.OA.2.4					
MAFS.1.OA.3.5					

<p>MAFS.1.OA.4.7 MAFS.1.OA.4.8</p>	<p>Cluster 4</p>	<p>_____ 4.7 Explain that the equal sign means “is the same value as” or “balances”.</p> <p>_____ 4.7 Compare the quantities of both sides of an equation and determine whether the equation is true or false.</p> <p>_____ 4.7 Solve addition and subtraction equations where the unknown number is represented by a symbol, such as a box or question mark.</p> <p>_____ 4.7 Determine the unknown value in an addition or subtraction equation when two of three numbers in the equation are given.</p>			
<p>Number and Operations in Base Ten</p> <p>MAFS.1.NBT.1.1</p>	<p>Cluster 1</p>	<p>_____ 1.1 Count to 120, starting at any number less than 120.</p> <p>_____ 1.1 Read and write numbers to 120.</p> <p>_____ 1.1 Represent a number of objects to 120 with a written numeral.</p>			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 1

Subject Area: Mathematics

Quarter: 2

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
<p>Operations and Algebraic Thinking</p> <p>MAFS.1.OA.1.2</p> <p>MAFS.1.OA.2.4</p> <p>MAFS.1.OA.3.6</p>	<p>Cluster 1</p>	<p>_____ 1.2 Add three whole numbers whose sum is less than or equal to 20.</p> <p>_____ 1.2 Solve word problems that call for the addition of three whole numbers whose sum is less than or equal to 20, using objects, drawings, and equations.</p> <p>_____ 1.2 Solve addition word problems involving three whole numbers with an unknown number in different positions</p> <p>_____ 1.2 Solve addition word problems with a symbol representing the unknown number.</p>			
	<p>Cluster 2</p>	<p>_____ 2.4 Show and explain how a subtraction equation can be rewritten as a related addition equation with an unknown numeral.</p> <p>_____ 2.4 Demonstrate the relationship between addition and subtraction using a variety of strategies and tools as a missing addends.</p> <p>_____ 2.4 Use strategies (e.g., doubles, doubles plus one, doubles minus one, friendly numbers, known facts) to add 20.</p>			
	<p>Cluster 3</p>	<p>_____ 3.6 Use strategies to add and subtract within 20.</p> <p>_____ 3.6 Use mathematical tools such as ten frames, part-part whole, and number lines to model addition and subtraction within 20.</p> <p>_____ 3.6 Explain strategies used to add and subtract within 20.</p> <p>_____ 3.6 Add and subtract within 10 with fluency.</p>			

<p>Number and Operations in Base Ten</p> <p>MAFS.1.NBT.2.2 MAFS.1.NBT.2.3</p>	<p>Cluster 2</p>	<p>____ 2.2 Understand that the two digits of a two-digit number represent amounts of tens and ones.</p> <p>____ 2.2 Understand how to represent numbers from 11 to 19 as a 10 and ones.</p> <p>____ 2.2 Understand that 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to tens with no ones.</p> <p>____ 2.3 Compare numbers to 20 using the symbols $>$, $=$, and $<$.</p> <p>____ 2.3 Compare two 2-digit numbers using the symbols $>$, $=$, and $<$.</p>			
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Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 1

Subject Area: Mathematics

Quarter: 3

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
<p>Number and Operations in Base Ten</p> <p>MAFS.1.NBT.3.4 MAFS.1.NBT.3.5 MAFS.1.NBT.3.6</p>	<p>Cluster 3</p>	<p><u> </u> 3.4 Add within 100 using models or drawings.</p> <p><u> </u> 3.4 Add a two-digit number and a multiple of ten, within 100, using appropriate tools (e.g., concrete models and drawings) and strategies.</p> <p><u> </u> 3.4 Add a two-digit number to a one-digit number, within 100.</p> <p><u> </u> 3.4 Add a two-digit number and a multiple of ten.</p> <p><u> </u> 3.4 Explain and record the steps that were followed when using concrete models and drawings.</p> <p><u> </u> 3.5 Add a two-digit number and a one-digit number.</p> <p><u> </u> 3.5 Count forward and backward by tens starting at any number within 100 on a hundreds chart.</p> <p><u> </u> 3.5 Identify the pattern that occurs when counting by tens.</p> <p><u> </u> 3.5 Identify 10 more or 10 less than any number within 100.</p> <p><u> </u> 3.5 Use mental math strategies to add ten to a two-digit number.</p> <p><u> </u> 3.5 Use mental math strategies to subtract ten from a two-digit number.</p> <p><u> </u> 3.5 Explain mental math strategies used to find 10 more or 10 less than any two-digit number.</p> <p><u> </u> 3.5 Explain why the tens digit increases or decreases by one when 10 is added or subtracted.</p> <p><u> </u> 3.6 Subtract a multiple of ten from multiples of ten.</p> <p><u> </u> 3.6 Explain the pattern of subtracting a multiple of ten from multiples of ten (i.e., only the tens digit changes) to aid in efficiency and fluency.</p>			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 1

Subject Area: Mathematics

Quarter: 4

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
<p>Measurement and Data</p> <p>MAFS.1.MD.1.1 MAFS.1.MD.1A</p> <p>MAFS.1.MD.2.3 MAFS.1.MD.2a</p> <p>MAFS.1.MD.3.4</p>	<p>Cluster 1</p>	<p>_____ 1.1 Order three objects by length.</p> <p>_____ 1.1 Compare the lengths of two objects indirectly by using a third object.</p> <p>_____ 1.a. Repeat a short object end-to-end to measure a longer object.</p> <p>_____ 1.a. When measuring, know that there cannot be gaps or overlaps.</p> <p>_____ 1.a. Recognize that the ruler is a tool used to measure the attributes of length.</p> <p>_____ 1.a. Discuss the importance of the zero and end point.</p> <p>_____ 1.a.Explain that length measure is the span between two points.</p> <p>_____ 1.a. Recognize and explain a ruler has equal length intervals with no gaps or overlaps.</p> <p>_____ 1.a.Use a ruler to measure to the nearest inch.</p>			
	<p>Cluster 2</p>	<p>_____ 2.3 Tell and write time in hours using analog clocks.</p> <p>_____ 2.3 Tell and write time in half-hours</p>			
	<p>Cluster 3</p>	<p>_____ 3.4 Sort and represent up to three categories of data, (use objects such as food, students, Post-It Notes, stuffed animals, tally marks).</p> <p>_____ 3.4 Answer questions about the total number of data points and how many data points are in each category.</p> <p>_____ 3.4 Determine when a category has more or less than another category.</p>			

<p>Geometry</p> <p>MAFS.1.G.1.1 MAFS.1.G.1.2 MAFS.1.G.1.3</p>	<p>Cluster 3</p>	<p>_____ 1.1 Sort shapes by a defining attribute such as the number of sides.</p> <p>_____ 1.1 Draw shapes with a given defining attribute.</p> <p>_____ 1.2 Combine two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) to create a composite shape.</p> <p>_____ 1.2 Combine three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape.</p> <p>_____ 1.3 Partition two-dimensional shapes into equal shares.</p> <p>_____ 1.3 Describe the shares using words fraction words.</p> <p>_____ 1.3 Describe the whole as two of, four of.</p> <p>_____ 1.3 Demonstrate decomposing into equal shares creates smaller shares.</p>			
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Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 2

Subject Area: Mathematics

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Operations and Algebraic Thinking MAFS.2.OA.2.2 MAFS.2.OA.3.3	Cluster 2 Cluster 3	___ 1.1 Add and subtract within 100 to solve one- and two-step word problems about adding to, taking from, putting together, or taking apart. ___ 1.1 Add and subtract within 100 to solve one- and two-step word problems about comparing. ___ 2.2 Fluently add and subtract within 20 using mental strategies. ___ 2.2 Know from memory all sums of two one-digit numbers. ___ 3.3 Determine if a group of up to 20 objects is even or odd. ___ 3.3 Express an even number as a sum of two equal addends.			
Number and Operations in Base Ten MAFS.2.NBT.1.1 MAFS.2.NBT.1.2 MAFS.2.NBT.1.3 MAFS.2.NBT.1.4 MAFS.2.NBT.2.8 MAFS.2.NBT.2.9	Cluster 1 Cluster 2	___ 1.1 Understand that a three-digit number represents hundreds, tens, and ones. ___ 1.1 Understand that a hundred is 10 tens. ___ 1.1 Understand that 100, 200, and so on refer to hundreds with 0 tens and 0 ones. ___ 2.5 Fluently add within 100 using various strategies. ___ 2.5 Fluently subtract within 100 using various strategies. ___ 2.6 Add up to four 2-digit numbers using various strategies. ___ 2.8 Mentally add or subtract 10 or 100 to any given number 100-900. ___ 2.9 Explain why addition and subtraction strategies work using place value. ___ 2.9 Explain why addition and addition and subtraction strategies work using properties of operations.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 2

Subject Area: Mathematics

Quarter: 2

Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Operations and Algebraic Thinking MAFS.2.OA.1.1 MAFS.2.OA.1.a	Cluster 1	___ 1.1 Use objects, equations, or drawings to represent word problems. ___ 1.a Find an unknown whole number in an equation by relating 4 or more whole numbers.			
Number and Operations in Base Ten MAFS.2.NBT.2.5 MAFS.2.NBT.2.5 MAFS.2.NBT.2.6 MAFS.2.NBT.2.7	Cluster 2	___ 1.2 Count by 5s, 10s, and 100s within 1000. ___ 1.3 Read and write numbers to 1000 using base-ten numerals. ___ 1.3 Read and write numbers to 1000 using number names. ___ 1.3 Read and write numbers to 1000 in expanded form. ___ 1.4 Compare two 3-digit numbers using the symbols $>$, $=$, and $<$. ___ 2.7 Add within 1000 using models or drawings. ___ 2.7 Add within 1000 using place value strategies. ___ 2.7 Add within 1000 using properties of operations. ___ 2.7 Subtract within 1000 using models or drawings. ___ 2.7 Subtract within 1000 using place value strategies. ___ 2.7 Subtract within 1000 using properties of operations. ___ 2.7 Understand that sometimes it is necessary to compose or decompose tens or hundreds when adding or subtracting.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 2

Subject Area: Mathematics

Quarter: 3

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Measurement and Data MAFS.2.MD.1.1 MAFS.2.MD.1.2 MAFS.2.MD.1.3 MAFS.2.MD.1.4 MAFS.2.MD.2.5 MAFS.2.MD.2.6 MAFS.2.MD.3.7 MAFS.2.MD.3.8	Cluster 1	___ 1.1 Measure the length of an object in inches, feet, centimeters, and meters. ___ 1.1 Select and use the appropriate tool to measure an object (rulers, yardstick, meter stick, measuring tapes). ___ 1.2 Measure an object with two units and relate the measurements to the unit size. ___ 1.3 Estimate lengths in inches, feet, yards, centimeters, and meters. ___ 1.4 Measure to find out how much longer one object is than another. ___ 1.4 Express the length difference between two objects in terms of a standard unit length.			
	Cluster 2	___ 2.5 Use addition and subtraction within 100 to solve word problems involving lengths with the same units. ___ 2.5 Use drawings and equations to represent lengths. ___ 2.6 Represent whole number sums and differences as lengths within 100 on a number line diagram.			
	Cluster 3	___ 3.7 Tell and write time to the nearest five minutes from analog clocks. ___ 3.7 Tell and write time to the nearest five minutes from digital clocks. ___ 3.7 Write times using a.m. and p.m. ___ 3.8 Solve word problems involving dollar bills and coins, using \$ and ¢ symbols. ___ 3.8 Identify the value of coins and paper currency. ___ 3.8 Compute the value of any combinations of coins within one dollar. ___ 3.8 Compute the value of any combination of dollars. ___ 3.8 Relate the value of coins to other coins and to the dollar.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 2

Subject Area: Mathematics

Quarter: 4

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Operations and Algebraic Thinking MAFS.2.OA.3.4	Cluster 3	___ 3.4 Add to find the number shown by an array with up to 5 rows and 5 columns. ___ 3.4 Write an equation for an array as a sum of equal addends.			
Measurement and Data MAFS.2.MD.4.9 MAFS.2.MD.4.10	Cluster 4	___ 4.9 Make a line plot of measurement data, measured to nearest whole unit. ___ 4.9 Measure lengths of several objects to the nearest whole unit. ___ 4.9 Make repeated measurements of the same object. ___ 4.9 Show measurements by making a line plot with whole number units. ___ 4.10 Draw a bar graph with up to four categories. ___ 4.10 Draw a picture graph with up to four categories. ___ 4.10 Add or subtract to solve problems about data presented in a bar graph.			
Geometry MAFS.2.G.1.1 MAFS.2.G.1.2 MAFS.2.G.1.3	Cluster 1	___ 1.1 Recognize and draw shapes having a given number of angles or faces. ___ 1.1 Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. ___ 1.2 Partition a rectangle into rows and columns of squares and count the squares. ___ 1.3 Partition circles and rectangles into two, three, or four equal shares. ___ 1.3 Describe shares using the words halves, thirds, half of, a third of, etc. ___ 1.3 Describe the whole as two halves, three thirds, four fourths. ___ 1.3 Recognize that equal shares of identical wholes need not have the same shape.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 3

Subject Area: Mathematics

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Number and Operations in Base Ten MAFS.3.NBT.1.1 MAFS.3.NBT.1.2	Cluster 1	___ 1.1 Round numbers to the nearest 10 or 100. ___ 1.1 Fluently add numbers with sums to 1000. ___ 1.1 Fluently subtract from numbers to 1000. ___ 1.2 Subtract by relating to addition.			
Operations and Algebraic Thinking MAFS.3.OA.4.8	Cluster 4	___ 4.8 Represent and solve two-step word problems using addition and/or subtraction.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 3

Subject Area: Mathematics

Quarter: 2

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Operations and Algebraic Thinking MAFS.3.OA.1.1 MAFS.3.OA.1.2 MAFS.3.OA.1.3 MAFS.3.OA.1.4 MAFS.3.OA.2.5 MAFS.3.OA.2.6 MAFS.3.OA.3.7	Cluster 1	_____ 1.1 Interpret multiplication as the total of equal groups. _____ 1.2 Interpret division as sharing equally or making equal shares. _____ 1.3 Use multiplication and division to solve word problems. _____ 1.4 Find the missing number in a multiplication or division equation.			
	Cluster 2	_____ 2.5 Apply the commutative and associative properties for multiplication. _____ 2.5 Apply the distributive property when learning basic facts. _____ 2.6 Relate division to finding a missing factor.			
	Cluster 3	_____ 3.7 Fluently multiply to find products of two one-digit numbers. _____ 3.7 Fluently divide numbers to 100 by one-digit numbers.			

<p>Operations and Algebraic Thinking</p> <p>MAFS.3.OA.4.8 MAFS.3.OA.4.9</p>	<p>Cluster 4</p>	<p>_____ 4.8 Represent and solve two-step word problems using addition and/or subtraction.</p> <p>_____ 4.8 Represent and solve two-step word problems using multiplication and/or division.</p> <p>_____ 4.8 Represent and solve two-step word problems using any two operations.</p> <p>_____ 4.9 Identify and explain arithmetic patterns.</p>			
<p>Numbers and Base Ten</p> <p>MAFS.3.NBT.1.3</p>	<p>Cluster 1</p>	<p>_____ 1.3 Multiply one-digit numbers by multiples of 10 up to 90.</p>			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 3

Subject Area: Mathematics

Quarter: 3

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Measurement and Data MAFS.3.MD.2.3	Cluster 2	___ 2.3 Draw a bar graph using an appropriate scale. ___ 2.3 Solve problems using information from graphs.			
Geometry MAFS.3.G.1.1 MAFS.3.G.1.2	Cluster 1	___ 1.1 Categorize quadrilaterals including rhombuses, rectangles, and squares by their attributes. ___ 1.2 Partition shapes into parts with equal areas to represent unit fractions.			
Measurement and Data MAFS.3.MD.3.5 MAFS.3.MD.3.6 MAFS.3.MD.3.7	Cluster 3	___ 3.5 Understand that area is measured in square units. ___ 3.5 Count unit squares to measure area. ___ 3.6 Relate area of a rectangle to multiplication. ___ 3.6 Solve real-world problems involving area. ___ 3.6 Represent products as rectangular areas. ___ 3.7 Use area models to represent the distributive prop. ___ 3.7 Find areas by decomposing figures to make rectangles.			
MAFS.3.MD.4.8	Cluster 4	___ 4.8 Find the perimeter of a polygon. ___ 4.8 Find an unknown side length in a polygon. ___ 4.8 Compare perimeters of two rectangles with the same area. ___ 4.8 Compare areas of two rectangles with the same perimeter.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 3

Subject Area: Mathematics

Quarter: 4

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Number and Operations – Fractions MAFS.3.NF.1.1 MAFS.3.NF.1.2 MAFS.3.NF.1.3	Cluster 1	<p>_____ 1.1 Write a fraction to represent one or more equal parts of a whole unit.</p> <p>_____ 1.2 Write fractions to represent lengths of intervals on a number line.</p> <p>_____ 1.2 Write fractions to represent locations on a number line.</p> <p>_____ 1.3 Recognize that equivalent fractions are the same size.</p> <p>_____ 1.3 Recognize and generate simple equivalent fractions.</p> <p>_____ 1.3 Recognize fractions equivalent to whole numbers.</p> <p>_____ 1.3 Compare two fractions with the same numerator or denominator.</p>			

Measurement and Data MAFS.3.MD.1.1 MAFS.3.MD.1.2	Cluster 1	____ 1.1 Write time to the nearest minute. ____ 1.1 Measure time intervals in minutes. ____ 1.1 Solve word problems involving time intervals. ____ 1.1 Measure and estimate liquid volume in liters. ____ 1.2 Measure and estimate liquid volume in liters. ____ 1.2 Solve word problems involving liquid volume. ____ 1.2 Measure and estimate mass in grams and kilograms. ____ 1.2 Solve word problems involving mass. ____ 1.2 Make line plots of data measured using rulers to 1/4 inch.			
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- Review value of money

The standards listed below should be incorporated into the Science & Social Studies

Reading a Thermometer in Celsius and Fahrenheit

MAFS.3.MD.2.3 Draw a bar graph using an appropriate scale.

Solve problems using information from graphs.

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 4

Subject Area Mathematics

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Operations and Algebraic Thinking MAFS.4.OA.2.4 MAFS.4.OA.3.5	Cluster 2 Cluster 3	___2.4 List factors pairs for numbers 1 to 100. ___2.4 Recognize factors and multiples. ___2.4 Recognize prime and composite numbers. ___3.5 Complete number patterns. ___3.5 Generate number or shape patterns from rules. ___3.5 Identify and explain features of patterns.			
Number and Operations in Base Ten MAFS.4.NBT.1.1 MAFS.4.NBT.1.2 MAFS.4.NBT.1.3 MAFS.4.NBT.2.4 MAFS.4.NBT.2.5	Cluster 1 Cluster 2	___1.1 Relate place value to multiplication and division by 10. ___1.2 Read and write numbers to 1 million. ___1.2 Convert between standard and expanded forms of whole numbers. ___1.2 Compare whole numbers up to 1 million. ___1.3 Round multi-digit whole numbers to any place. ___2.4 Add multi-digit numbers using the standard algorithm. ___2.4 Subtract multi-digit number using the standard algorithm. ___2.5 Multiply 2-digit by 1-digit numbers using place value and/or models. ___2.5 Multiply 3- and 4-digit by 1-digit numbers using place value and/or models.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 4

Subject Area Mathematics

Quarter: 2

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Number and Operations in Base Ten MAFS.4.NBT.2.6	Cluster 2	___2.5 Multiply 2-digit by 2-digit numbers using place value and/or models. ___2.6 Relate division and multiplication. ___2.6 Divide 2-,3- and 4-digit dividends by 1-digit divisors without remainders using place value and/or models. ___2.6 Divide 2-,3- and 4-digit dividends by 1-digit divisors with remainders using place value and/or models.			
Measurement and Data MAFS.4.MD.1.3	Cluster 1	___1.3 Solve problems involving area of rectangles. ___1.3 Solve problems involving perimeter of rectangles.			
Operations and Algebraic Thinking MAFS.4.OA.1.1 MAFS.4.OA.1.1a MAFS.4.OA.1.1b MAFS.4.OA.1.2 MAFS.4.OA.1.3	Cluster 1	___1.1 Interpret multiplication as “times as many.” ___1.1a Determine whether an equation is true or false using comparative thinking. ___1.2 Distinguish multiplicative from additive comparison in word problems. ___1.3 Solve multi-step word problems using number sentences. ___1.3 Interpret remainders in division problems. ___1.3 Estimate to assess reasonableness of answers.			

Measurement and Data MAFS.4.MD.1.1 MAFS.4.MD.1.2	Cluster 1	___ 1.1 Compare measurement units and convert from larger to smaller units. ___ 1.1 Create or complete tables of equivalent measurements. ___ 1.2 Solve problems involving distance, time, and elapsed time. ___ 1.2 Solve problems involving money. ___ 1.2 Solve problems involving capacity (liquid volume) and weight (mass). ___ 1.2 Represent measurements on number line diagrams.			
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The standards listed below should be incorporated into the Science & Social Studies

Solve problems using information from graphs.

Make line plots using data including fractions.

Solve problems involving data shown on a line plot.

Solve problems involving distance, time, and elapsed time.

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 4

Subject Area Math

Quarter: 4

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Number and Operations Fractions MAFS.4.NF.3.6 MAFS.4.NF.3.7	Cluster 3	___ 3.6 Convert between decimals and fractions in tenths or hundredths. ___ 3.6 Locate decimals on a number line. ___ 3.7 Compare two decimals to hundredths.			
Geometry MAFS.4.G.1.1 MAFS.4.G.1.2 MAFS.4.G.1.3	Cluster 1	___ 1.1 Identify and draw points, lines, and line segments. ___ 1.1 Identify and draw parallel and perpendicular lines. ___ 1.1 Identify and draw rays and acute, right, and obtuse angles. ___ 1.2 .Classify and identify two-dimensional figures by sides and triangles by angles. ___ 1.3 Identify and draw lines of symmetry.			
Measurement and Data MAFS.4.MD.2.4 MAFS.4.MD.3.5 MAFS.4.MD.3.6 MAFS.4.MD.3.7	Cluster 2 Cluster 3	___ 2.4 Make line plots using data including fractions. ___ 2.4 Solve problems involving data shown on a line plot. ___ 3.5 Relate degrees to fractions of a circle. ___ 3.6 Measure and draw angles using a protractor. ___ 3.7 Solve problems involving angle measurements.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 5

Subject Area Math

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Number and Operations in Base Ten MAFS.5.5.NBT.1.1 MAFS.5.5.NBT.1.2 MAFS.5.5.NBT.1.3 MAFS.5.5.NBT.1.4 MAFS.5.5.NBT.2.5 MAFS.5.5.NBT.2.6 MAFS.5.5.NBT.2.7	Cluster 1	___ 1.1 Relate place value to multiplying by 10 or 1/10. ___ 1.2 Multiply and divide whole numbers by powers of 10. ___ 1.2 Write powers of 10 using exponents. ___ 1.3 Read and write decimals to thousandths. ___ 1.3 Convert between standard and expanded form of decimals. ___ 1.3 Compare decimals to thousandths. ___ 1.4 Round decimals to any place.			
	Cluster 2	___ 2.5 Multiply whole numbers up to 4-digit by 1 digit using the standard algorithm. ___ 2.5 Multiply whole numbers up to 2-digit by 2-digit using the standard algorithm. ___ 2.6 Relate division to multiplication by multiples of 10. ___ 2.6 Divide 3-digit dividends by multiples of 10 using place value and/or models. ___ 2.6 Relate division to multiplication by 2-digit factors. ___ 2.6 Divide 3- and 4-digit dividends by 2-digit divisors using place value and/or models. ___ 2.7 Relate addition and subtraction of decimals. ___ 2.7 Add and subtract decimals to hundredths using			

		place value and/or models.			
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Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 5

Subject Area Math

Quarter: 2

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Number and Operations in Base Ten MAFS.5.5.NBT.1.2 MAFS.5.5.NBT.2.7	Cluster 1 Cluster 2	___ 1.2 Multiply and divide decimals by powers of 10. ___ 2.7 Relate multiplication and division of decimals. ___ 2.7 Multiply and divide decimals to hundredths using place value and/or models.			
Geometry MAFS.5.G.1.1 MAFS.5.G.1.2 MAFS.5.G.2.3 MAFS.5.G.2.4	Cluster 1 Cluster 2	___ 1.1 Graph and identify points with positive coordinates on a coordinate system. ___ 1.2 Use coordinates (positive only) to represent and solve problems. ___ 1.2 Use coordinates to analyze geometric shapes. ___ 2.3 Classify and identify quadrilaterals. ___ 2.4 Recognize categories and create hierarchies of shapes.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 5

Subject Area Math

Quarter: 3

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Number and Operations-Fractions MAFS.5.NF.2.3 MAFS.5.NF.2.4 MAFS.5.NF.2.5 MAFS.5.NF.2.6 MAFS.5.NF.2.7	Cluster 2	___ 2.3 Interpret fractions as division to solve word problems. ___ 2.4 Multiply whole numbers by fractions. ___ 2.4 Represent multiplications of fractions using area models. ___ 2.4 Multiply fractions by fractions. ___ 2.5 Interpret multiplication as resizing. ___ 2.6 Multiply fractions and mixed numbers to solve word problems. ___ 2.6 Divide unit fractions by whole numbers using models. ___ 2.6 Divide whole numbers by unit fractions using models. ___ 2.7 Relate division to multiplication of fractions. ___ 2.7 Divide with unit fractions and whole numbers to solve problems.			

Note:

Data Analysis, Probability, & Statistics NOT INCLUDED IN MAFS: apply probability concepts and counting rules; understand and apply measures of central tendency and variability; interpret data and make predictions (can be incorporated in science)

Geometry taught in Q4: identify, classify, and compare geometric figures; apply concepts of perimeter, area and volume; describe geometric properties, patterns, and relationships; estimate geometric measurements

Measurement taught in Q4: estimate measurements with appropriate precision; measure length, distance, time, temperature, weight, mass, and volume; identify and use appropriate units of measurement and measurement tools. (can be incorporated in science)

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 5

Subject Area Math

Quarter: 4

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Operations and Algebraic Thinking MAFS.5.OA.1.1 MAFS.5.OA.1.2 MAFS.5.OA.2.3	Cluster 1	___ 1.1 Evaluate numerical expressions with parentheses. ___ 1.2 Write and interpret numerical expressions.			
	Cluster 2	___ 2.3 Write and compare two patterns given two rules. ___ 2.3 Identify features of related patterns in tables or graphs.			
Measurement and Data MAFS.5.MD.1.1 MAFS.5.MD.2.2 MAFS.5.MD.3.3	Cluster 1	___ 1.1 Convert metric measurements. ___ 1.1 Convert conventional measurements.			
	Cluster 2	___ 2.2 Make line plots using data including fractions. ___ 2.2 Solve problems about line plots.			
	Cluster 3	___ 3.3 Identify a cube as a unit of volume. ___ 3.4 Measure volume by counting unit cubes. ___ 3.5 Add and/or multiply to find volumes of rectangular prisms. ___ 3.5 Solve problems involving volume of rectangular prisms (whole numbers lengths). ___ 3.5 Solve problems involving volumes of connected prisms.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 6

Subject Area Math

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
<p>The Number System</p> <p>MAFS.6.NS.1.1</p> <p>MAFS.6.NS.2.2 MAFS.6.NS.2.3 MAFS.6.NS.2.4</p> <p>MAFS.6.NS.3.5 MAFS.6.NS.3.6 MAFS.6.NS.3.7 MAFS.6.NS.3.8</p>	<p>Cluster 1</p> <p>Cluster 2</p> <p>Cluster 3</p>	<p>___ 1.1 Relate division and multiplication of fractions.</p> <p>___ 1.1 Divide fractions by fractions using models.</p> <p>___ 1.1 Divide fractions by fractions to solve problems.</p> <p>___ 2.2 Dividemulti-digitnumbersusingthestandardalgorithm.</p> <p>___ 2.3 Add and subtract multi-digitdecimals.</p> <p>___ 2.3 Multiply multi-digit decimals.</p> <p>___ 2.3 Divide multi-digit decimals.</p> <p>___ 2.4 Find greatest common factors.</p> <p>___ 2.4 Find least common multiples.</p> <p>___ 2.4 Use distributive property to isolate a common factor.</p> <p>___ 3.5 Relate positive and negative numbers to real situations.</p> <p>___ 3.5 Write and identify opposites of integers.</p> <p>___ 3.6 Relate opposite numbers in ordered pairs to reflections.</p> <p>___ 3.7 Compare rational numbers using a number line.</p> <p>___ 3.8 Graph or identify points in four quadrants.</p> <p>___ 3.8 Write comparisons for ordering rational numbers in real situations.</p> <p>___ 3.8 Solve problems involving coordinate graphs in four quadrants.</p> <p>___ 3.8 Find distance between two points with the same first or second coordinate.</p>			
<p>Geometry</p> <p>MAFS.6.G.1.3</p>	<p>Cluster 1</p>	<p>___ 1.3 Draw polygons given coordinates for the vertices.</p> <p>___ 1.3 Use coordinates to calculate the length of vertical or horizontal segments.</p>			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 6

Subject Area Math

Quarter: 2

Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Expressions and Equations MAFS.6.EE.1.1 MAFS.6.EE.1.2 MAFS.6.EE.1.3 MAFS.6.EE.1.4 MAFS.6.EE.2.5 MAFS.6.EE.2.6 MAFS.6.EE.2.7 MAFE.6.EE.2.8 MAFS.6.EE.3.9	Cluster 1	___ 1.1 Evaluate numerical expressions that include exponents. ___ 1.2 Write or interpret simple expressions with variables. ___ 1.2 Identify parts of an expression using mathematical terms. ___ 1.2 Evaluate expressions for specific values of variables. ___ 1.2 Evaluate formulas for specific values. ___ 1.3 Write equivalent expressions using the distributive property. ___ 1.4 Identify when two expressions are equivalent.			
	Cluster 2	___ 2.5 Use substitution to decide if a number is a solution to an equation. ___ 2.6 Use variables and expressions to represent situations. ___ 2.7 Write equations of the form $x + p = q$ to solve problems. ___ 2.7 Write equations of the form $px = q$ to solve problems. ___ 2.8 Write or interpret inequalities $x > c$ or $x < c$. ___ 2.8 Represent inequalities on number line diagrams.			
	Cluster 3	___ 3.9 Use two variables to represent two related quantities. ___ 3.9 Graph ordered pairs of related quantities. ___ 3.9 Write equations to describe related variables.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 6

Subject Area Math

Quarter: 3

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Ratios and Proportional Relationships MAFS.6.RP.1.1 MAFS.6.RP.1.2 MAFS.6.RP.1.3	Cluster 1	___ 1.1 Write and interpret ratios. ___ 1.2 Find unit rates related to ratios. ___ 1.3 Write equivalent ratios, including ratio tables. ___ 1.3 Use ratios to convert measurements. ___ 1.3 Plot pairs of ratios on the coordinate plane. ___ 1.3 Solve unit rate problems such as unit pricing. ___ 1.3 Write a fraction or ratio as a percent. ___ 1.3 Find a number given the part and the percent. ___ 1.3 Find a percent of a number.			
Geometry MAFS.6.G.1.1 MAFS.6.G.1.2 MAFS.6.G.1.4	Cluster 1	___ 1.1 Find areas of triangles. ___ 1.1 Decompose and compose shapes into triangles and rectangles. ___ 1.1 Find areas of polygons. ___ 1.2 Use cubes to find volumes of prisms with fractional edge lengths. ___ 1.2 Multiply to find volumes of prisms with fractional edge lengths. ___ 1.4 Represent 3-dimensional figures as nets.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 6

Subject Area Math

Quarter: 4

Strand/Domain	Cluster	Standards-Based Essential Skills/Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Statistics and Probability MAFS.6.SP.1.1 MAFS.6.SP.1.2 MAFS.6.SP.1.3 MAFS.6.SP.2.4 MAFS.6.SP.2.5	Cluster 1	___ 1.1 Recognize statistical questions. ___ 1.2 Describe the center, spread (range), and shape of a data on a dot plot. ___ 1.2 Find the median of a data set. ___ 1.2 Find the mean of a data set. ___ 1.3 Recognize measures of center and variation of data.			
	Cluster 2	___ 2.4 Display and describe data on box plots. ___ 2.4 Display and describe data on histograms. ___ 2.5 Find quartiles and interquartile range. ___ 2.5 Find the mean absolute deviation of a data set.			

The standards listed below will be incorporated into the Science & Social Studies curriculum.

MAFS.6.SP.2.4 } Display numerical data in charts, graphs, and plots on a number line, including dot plots.

MAFS.6.SP.2.5 } a. Reporting the number of observations.

b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.

***Review addition and subtraction of fractions in first quarter.**

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 7

Subject Area Math

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
The Number System MAFS.7.NS.1.1 MAFS.7.NS.1.2 MAFS.7.NS.1.3	Cluster 1	____ 1.1 Relate sums of rational numbers to movements or situations. ____ 1.1 Relate subtraction of rational numbers to adding the opposite. ____ 1.1 Find distances between rational numbers on a number line. ____ 1.1 Add and subtract integers. ____ 1.1 Add and subtract rational numbers. ____ 1.2 Apply multiplication properties to rational numbers. ____ 1.2 Multiply and divide integers. ____ 1.2 Multiply and divide rational numbers. ____ 1.2 Write rational numbers as decimals. ____ 1.3 Compute with rational numbers to solve problems. ____ 1.3 Solve multi-step problems with rational numbers. ____ 1.3 Interpret products of rational numbers in real situations. ____ 1.3 Interpret quotients of rational numbers in real situations.			
Expressions and Equations MAFS.7.EE.1.1 MAFS.7.EE.1.2	Cluster 1	____ 1.1 Add and subtract linear expressions with rational coefficients. ____ 1.1 Expand or factor linear expressions. ____ 1.2 Interpret related expressions in real situations.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 7

Subject Area Math

Quarter: 2

Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Expressions and Equations MAFS.7.EE.2.3 MAFS.7.EE.2.4	Cluster 2	____ 2.3 Use operations with whole numbers to solve multi-step problems. ____ 2.3 Use fractions to solve multi-step problems. ____ 2.3 Use decimals to solve multi-step problems. ____ 2.4 Assess reasonableness of answers by using estimation. ____ 2.4 Solve linear equations of form $px + q = r$ and $p(x + q) = r$. ____ 2.4 Write linear equations to solve word problems. ____ 2.4 Relate algebraic solutions to arithmetic solutions. ____ 2.4 Write and solve linear inequalities for situations. ____ 2.4 Graph and interpret solutions to inequalities.			
Statistics and Probability MAFS.7.SP.1.1 MAFS.7.SP.1.2 MAFS.7.SP.2.3 MAFS.7.SP.2.4	Cluster 1 Cluster 2	____ 1.1 Identify representative sampling methods. ____ 1.2 Use a sample to draw inferences about a population. ____ 2.3 Visually compare the centers and spreads of distributions on dot plots. ____ 2.3 Compare predictions from various samples. ____ 2.4 Use measures of center and variability to make inferences.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 7

Subject Area Math

Quarter: 3

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Ratios and Proportional Relationships MAFS.7.RP.1.1 MAFS.7.RP.1.2 MAFS.7.RP.1.3	Cluster 1	___ 1.1 Calculate unit rates associated with ratios of fractions. ___ 1.1 Decide if two ratios or fractions form a proportion. ___ 1.2 Find the missing value in a proportion. ___ 1.2 Identify unit rates from tables, diagrams, or graphs. ___ 1.2 Identify unit rates from equations or verbal descriptions. ___ 1.2 Write equations for proportional relationships. ___ 1.2 Interpret points on graphs of proportions. ___ 1.3 Use percent to solve simple interest and tax problems. ___ 1.3 Use percent to solve markup and markdown problems. ___ 1.3 Use percent to solve problems about tips, commissions, and fees. ___ 1.3 Solve problems about percent increase or decrease. ___ 1.3 Calculate percent error.			
Geometry MAFS.7.G.2.4 MAFS.7.G.2.5 MAFS.7.G.2.6	Cluster 2	___ 2.4 Recognize relationships between parts of a circle. ___ 2.4 Apply formulas for circumference and area of circles. ___ 2.5 Solve equations to find supplementary, complementary, vertical, and adjacent angles. ___ 2.6 Solve problems involving area and surface area. ___ 2.6 Solve problems involving volume of rectangular prisms.			

- Although measurement is not found in the 7th grade standards, it should be emphasized throughout the curriculum:

Estimate & measure with appropriate precision the length/distance, time, temperature, weight, mass, and volume.

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 7

Subject Area Math

Quarter: 4

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Statistics and Probability MAFS.7.SP.3.5 MAFS.7.SP.3.6 MAFS.7.SP.3.7 MAFS.7.SP.3.8	Cluster 3	___ 3.5 Compare probabilities and relate to likelihoods of events. ___ 3.5 Calculate simple probabilities based on equally-likely outcomes. ___ 3.6 Use relative frequency of outcomes to approximate probability. ___ 3.7 Use a model to determine probability of events. ___ 3.7 Make predictions based on relative frequency, and compare results to predictions. ___ 3.8 Calculate probabilities of compound events. ___ 3.8 Create an organized list, table, or tree diagram for a compound event.			
Geometry MAFS.7.G.1.1 MAFS.7.G.1.2 MAFS.7.G.1.3	Cluster 1	___ 1.1 Compute lengths and areas from a scale drawing. ___ 1.2 Reproduce scale drawing using a different scale. ___ 1.2 Draw triangles given measures of sides or angles. ___ 1.2 Draw geometric shapes with given conditions. ___ 1.3 Describe two-dimensional figures that result from slicing solids.			

The standards listed below will be incorporated into the Art and Technology curriculum.

MAFS.SP.7.1.2 } Draw geometric shapes with given conditions.

MAFS.SP.7.1.3 } Describe two-dimensional figures that result from slicing solids.

The standards listed below will be incorporated into the Science curriculum.

MAFS.7.SP.1.1 } Compare predictions from various samples.

MAFS.7.SP.2.3 } Use measures of center and variability to make inferences.

MAFS.7.SP.2.4 } Visually compare the centers and spreads of distribution on dot plots.

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 8

Subject Area Math

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
The Number System MAFS.8.NS.1.1 MAFS.8.NS.1.2	Cluster 1	___ 1.1 Identify rational and irrational numbers. ___ 1.1 Convert repeating decimals to rational numbers. ___ 1.2 Find approximations for irrational numbers.			
Expressions and Equations MAFS.8.EE.1.1 MAFS.8.EE.1.2 MAFS.8.EE.1.3 MAFS.8.EE.1.4 MAFS.8.EE.3.7	Cluster 1 Cluster 3	___ 1.1 Simplify and evaluate numerical expressions with integer exponents. ___ 1.1 Develop and apply properties of exponents. ___ 1.2 Use square root and cube root symbols. ___ 1.2 Evaluate square roots and cube roots. ___ 1.3 Convert between standard notation and scientific notation. ___ 1.4 Use scientific notation to compare relative sizes of numbers. ___ 1.4 Convert measurement results to appropriate units. ___ 3.7 Simplify and solve linear equations by writing equivalent forms. ___ 3.7 Identify or write equations with 0, 1, or infinitely many solutions. ___ 3.7 Simplify and solve linear equations with rational coefficients			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 8

Subject Area Math

Quarter: 2

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Geometry MAFS.8.G.1.1 MAFS.8.G.1.2 MAFS.8.G.1.3 MAFS.8.G.1.4 MAFS.8.G.1.5 MAFS.8.G.2.6 MAFS.8.G.2.7 MAFS.8.G.2.8	Cluster 1	___ 1.1 Identify congruent parts in rotations, reflections, and translations. ___ 1.2 Identify transformations that move a figure onto a congruent figure. ___ 1.3 Use coordinates to describe translations, reflections, and rotations. ___ 1.3 Use coordinates to describe dilations. ___ 1.4 Compare ratios of side lengths to decide if two figures are similar. ___ 1.4 Identify the scale factor that enlarges or reduces a figure to match a similar figure. ___ 1.5 Identify transformations that move a figure onto a similar figure. ___ 1.5 Justify and calculate angle measures in triangles and line figures.			
	Cluster 2	___ 1.5 Justify the angle-angle criterion of similar triangles. ___ 2.6 Explain a proof of the Pythagorean Theorem and its converse. ___ 2.7 Use the Pythagorean Theorem to find lengths. ___ 2.8 Use the Pythagorean Theorem to find distance between points.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 8

Subject Area Math

Quarter: 3

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Expressions and Equations MAFS.8.EE.2.5 MAFS.8.EE.2.6	Cluster 2	___ 2.5 Graph proportional relationships. ___ 2.5 Compare two representations of a proportional relationship. ___ 2.6 Use similar triangles to verify that a line has constant slope. ___ 2.6. Relate linear equations to slopes and intercepts.			
Statistics and Probability MAFS.8.SP.1.1 MAFS.8.SP.1.2 MAFS.8.SP.1.3 MAFS.8.SP.1.4	Cluster 1	___ 1.1 Construct scatter plots. ___ 1.1 Interpret scatter plots. ___ 1.2 For data that appear to be linear, estimate a line of best fit. ___ 1.3 Informally assess the fit of a linear model. ___ 1.4 Interpret a linear model for real-world data. ___ 1.4 Compare frequencies and relative			
Geometry MAFS.8.G.3.9	Cluster 3	___ 3.9 Apply the formula for volume of a cone. ___ 3.9 Apply the formula for volume of a cylinder. ___ 3.9 Apply the formula for volume of a sphere.			

Curriculum Mapping (K-8) by Quarter *(Revised 6/14/17)*

Grade: 8

Subject Area Math

Quarter: 4

<p>Functions</p> <p>MAFS.8.F.1.1 MAFS.8.F.1.2 MAFS.8.F.1.3</p> <p>MAFS.8.F.2.4 MAFS.8.F.2.5</p>	<p>Cluster 1</p> <p>Cluster 2</p>	<p>___ 1.1 Understand that a function is a rule.</p> <p>___ 1.2 Compare two representations of a function.</p> <p>___ 1.3 Decide if a function is linear or non-linear.</p> <p>___ 2.4 Identify rate of change from a graph, table, or description.</p> <p>___ 2.4 Identify initial value of a function from a graph, table, or description.</p> <p>___ 2.4 Write a function from the rate of change and initial value.</p> <p>___ 2.5 Describe features on a non-linear function from its graph.</p> <p>___ 2.5 Sketch a graph from a verbal description of its features.</p>			
<p>Expressions and Equations</p> <p>MAFS.8.EE.3.8</p>	<p>Cluster 3</p>	<p>___ 3.8 Identify the solution to a system of two linear equations as the intersection point.</p> <p>___ 3.8 Solve systems of two linear equations algebraically.</p> <p>___ 3.8 Estimate the solution to two linear equations by graphing.</p> <p>___ 3.8 Solve problems involving systems of two linear equations.</p>			