6th Grade Math Curriculum Mapping 2017-2018 – Horn

		ential Questions		Big Ideas	Full Objectives
Unit 1: How de Rational Numbers rationa	Question o we work with 1. I numbers in orld situations? 2. 3. 4.	How can number relationships help with problem solving? What is the relationship between fractions, decimals, and percents? How does comparing numbers describe their relationship? How can operations with rational numbers help solve real world problems? How can we use a variety of models to understand rational numbers?	1. 2. 3. 4. 5.	Factors and multiples can be used to find relationships between numbers. Equivalencies exist among fractions, decimals, and percents. Positive rational numbers in different forms can be compared and ordered. Fractions, decimals, and mixed numbers can be multiplied and divided. Integers can be added and subtracted.	6.N.1.1 Represent integers with counters and on a number line and positive rational numbers on a number line, recognizing the concepts of opposites, direction, and magnitude; use integers and rational numbers in real-world and mathematical situations, explaining the meaning of 0 in each situation. 6.N.1.2 Compare and order positive rational numbers, represented in various forms, or integers using the symbols <, >, and =. 6.N.1.3 Explain that a percent represents parts "out of 100" and ratios "to 100". 6.N.1.4 Determine equivalencies among fractions, decimals, and percents. Select among these representations to solve problems. 6.N.1.5 Factor whole numbers and express prime and composite numbers as a product of prime factors with exponents. 6.N.1.6 Determine the greatest common factors and least common multiples. Use common factors and multiples to calculate with fractions, find equivalent fractions and express the sum of two-digit numbers with a common factor using the distributive property. 6.N.2.1 Estimate solutions to addition and subtraction of integers problems in order to assess the reasonableness of results. 6.N.2.2 Illustrate addition and subtraction of integers using a variety of representations. 6.N.2.3 Add and subtract integers; use efficient and generalizable procedures including but not limited to standard algorithms. 6.N.4.1 Estimate solutions to problems with whole

						numbers, decimals, fractions, and mixed numbers and use the estimates to assess the reasonableness of results in the context of the problem. 6.N.4.2 Illustrate multiplication and division of fractions and decimals to show connections to fractions, whole number multiplication, and inverse relationships. 6.N.4.3 Multiply and divide fractions and decimals using efficient and generalizable procedures. 6.N.4.4 Solve and interpret real-world and mathematical problems including those involving money, measurement, geometry, and data requiring arithmetic with decimals, fractions, and mixed numbers.
Unit 2: Expressions, Equations, & Inequalities	How do expressions, equations, and	1.	How can patterns in real-world scenarios	1.	Mathematical relationships can be expressed using different	6.A.1.1 Plot integer- and rational-valued (limited to halves and fourths) ordered-pairs as coordinates in all four
	inequalities help to		be explored using		representations.	quadrants and recognize the reflective relationships among
Timing	solve real-world		mathematics?	2.	Order of operations is used to	coordinates that differ only by their signs.
4-5 weeks	problems?	2.	How can properties		evaluate and compare expressions.	6.A.1.2 Represent relationships between two varying
			help to simplify real-	3.	The commutative, associative, and	quantities involving no more than two operations with
Objectives			world problems?		distributive properties are used to	rules, graphs, and tables, translate between any two of these
6.A.1.1		3.	How can the order of		find equivalent expressions.	representations.
6.A.1.2			operations be used to	4.	Equations can be used to find an	6.A.1.3 Use and evaluate variables in expressions,
6.A.1.3			find solutions in real-		unknown value.	equations, and inequalities that arise from various contexts,
6.A.2.1			world problems?			including determining when or if, for a given value of the
6.A.3.1		4.	How can equations be			variable, an equation or inequality involving a variable is
<u>6.A.3.2</u>			used to find solutions			true or false.
6.N.2.3 *			to real-world			6.A.2.1 Generate equivalent expressions and evaluate
6.N.4.3 *			problems?			expressions involving positive rational numbers by
6.N.4.4 *						applying the commutative, associative, and distributive
						properties and order of operations to solve real-world and
						mathematical problems.
						6.A.3.1 Represent real-world or mathematical situations
						using expressions, equations, and inequalities involving
						variables and rational numbers.
						6.A.3.2 Use number sense and properties of operations and

						equality to solve real-world and mathematical problems
						involving equations in the form $x + p = q$ and $px = q$, where
						x, p, and q are non-negative rational numbers. Graph the
						solution on a number line, interpret the solution in the
						original context, and assess the reasonableness of the
						solution.
						6.N.2.3 Add and subtract integers; use efficient and
						generalizable procedures including but not limited to
						standard algorithms.
						6.N.4.3 Multiply and divide fractions and decimals using
						efficient and generalizable procedures.
						6.N.4.4 Solve and interpret real-world and mathematical
						problems including those involving money, measurement,
						geometry, and data requiring arithmetic
						with decimals, fractions, and mixed numbers.
Unit 3: Ratios	How can ratios be	1.	How can we compare	1.	Ratios are used to compare	6.N.3.1 Identify and use ratios to compare quantities.
	applied in real-world		quantities?		quantities.	Recognize that multiplicative comparison and additive
Timing	situations?	2.	How do we use the	2.	Unit rates compare quantities with	comparison are different.
3-4 weeks			relationship between		different units where the second	6.N.3.2 Determine the unit rate for ratios.
			ratio and rates to		quantity in the comparison is 1.	6.N.3.3 Apply the relationship between ratios, equivalent
Objectives			solve problems?	3.	A percent represents a ratio out of	fractions, and percents to solve problems in various
<u>6.N.3.1</u>		3.	How and when are		a 100.	contexts, including those involving mixture and
<u>6.N.3.2</u>			percents useful in			concentrations.
6.N.3.3			real-world scenarios?			6.N.3.4 Use multiplicative reasoning and representations to
6.N.3.4						solve ratio and unit rate problems.
6.N.1.3 *						6.N.1.3 Explain that a percent represents parts "out of 100"
6.N.1.4 *						and ratios "to 100".
6.N.1.5 *						6.N.1.4 Determine equivalencies among fractions,
6.N.1.6 *						decimals, and percents. Select among these representations
6.A.1.2 *						to solve problems.
6.A.3.1 *						6.N.1.5 Factor whole numbers and express prime and
6.A.3.2 *						composite numbers as a product of prime factors with
6.GM.3.1						exponents.
6.GM.3.2						6.N.1.6 Determine the greatest common factors and least
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representations. 6.A.3.1 Represent real-world or mathematical situations using expressions, equations, and inequalities involving variables and rational numbers. 6.A.3.2 Use number sense and properties of operations and equality to solve real-world and mathematical problems involving equations in the form $x + p = q$ and $px = q$, when q are non-negative rational numbers. Graph the solution on a number line, interpret the solution in the original context, and assess the reasonableness of the solution. 6.G.M.3.1 Estimate weights, capacities and geometric							
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within the same measurements systems using appropriate							mathematical contexts that require the conversion of
							weights, capacities, geometric measurements, and time
units.							within the same measurements systems using appropriate
							units.
Unit 4: How can angle 1. How can we use 2. How can angle 2. How can angle 3. Vertical, complementary, and supplementary angles are formed by intersecting lines. 4. G.G.M.2.1 Solve problems using the relationships between 4. How can angle 3. How can we use 4. How can angle 4. How can we use 4. How can angle 5. How can we use 4. How can angle 5. How can we use 4. How can angle 6. How can angle 6. How can angle 7. How can we use 8. How can angle 8. How can angle 8. How can we use 8. How can angle 8. How can angle 9. How can we use 8. How can angle 9. How can angle 9. How can angle 9. How can angle 9. How can we use 9. How can angle 9. How can angle 9. How can we use 9. How can angle 9. How can angle 9. How can we use 9. How can angle 9. How c	Unit 4:	How can angle	1.	How can we use	1.	supplementary angles are formed	6.GM.2.1 Solve problems using the relationships between
Angle relationships be used angle relationships to suggest of triangles is 180°. The sum of the measure of interior angles of triangles is 180°. The sum of the measure of interior angles of triangles is 180°. The sum of the measure of interior angles of triangles is 180°.				angle relationships to	2.	The sum of the measure of interior	
Relationships to answer questions in help solve for missing formed by intersecting lines.	Relationships	to answer questions in		help solve for missing			formed by intersecting lines.
everyday life? measures of angles? 6.GM.2.2 Develop and use the fact that the sum of the		everyday life?		measures of angles?			6.GM.2.2 Develop and use the fact that the sum of the
Timing 2. What methods can be interior angles of a triangle is 180* to determine missing	Timing		2.	What methods can be			interior angles of a triangle is 180° to determine missing
1-2 weeks used to find missing angle measures in a triangle.	1-2 weeks			used to find missing			angle measures in a triangle.
measures of 6.A.3.1 Represent real-world or mathematical situations				measures of			6.A.3.1 Represent real-world or mathematical situations
Objectives triangles? using expressions, equations, and inequalities involving	Objectives			triangles?			using expressions, equations, and inequalities involving
6.GM.2.1	6.GM.2.1						

6.GM.2.2						variables and rational numbers.
6.A.3.1 *						6.A.3.2 Use number sense and properties of operations and
6.A.3.2 *						equality to solve real-world and mathematical problems
						involving equations in the form $x+p=q$ and $px=q$,
						where p and q are nonnegative rational numbers. Graph the
						solution on a number line, interpret the solution in the
						original context, and assess the reasonableness of the
						solution.
				1.	Translations, reflections, and	
Unit 5:	How can	1.	How do	2	rotations can be used to transform a two-dimensional figure.	6.GM.4.1 Predict, describe, and apply translations (slides),
Transformations	transformations be		transformations affect	2.	Translations, reflections, and rotations preserve congruency and reflections can be used to find	reflections (flips), and rotations (turns) to a two-
	applied to real-world		two-dimensional		lines of symmetry for a two- dimensional figure.	dimensional figure.
Timing	situations?		figures?			6.GM.4.2 Recognize that translations, reflections, and
2-3 weeks		2.	How can			rotations preserve congruency and use them to show that
			transformations be			two figures are congruent.
Objectives			used to show two-			6.GM.4.3 Use the distances between two points that are
6.GM.4.1			dimensional figures			either vertical or horizontal to each other (not requiring the
6.GM.4.2			are congruent?			distance formula) to solve real-world and mathematical
6.GM.4.3		3.	How can			problems about congruent two-dimensional figures.
6.GM.4.4			transformations be			6.GM.4.4 Identify and describe the lines of symmetry in
<u>6.A.1.1</u> *			used to find lines of			two-dimensional shapes.
6.A.1.2 *			symmetry?			6.A.1.1 Plot integer- and rational-valued (limited to halves
						and fourths) ordered-pairs as coordinates in all four
						quadrants and recognize the reflective relationships among
						coordinates that differ only by their signs.
						6.A.1.2 Represent relationships between two varying
						quantities involving no more than two operations with
						rules, graphs, and tables, translate between any two of these
						representations.
						-
That Co	Why is finding area	1	How can we was	1.	The area of a square and a parallelogram is related to the area	6 CM 1 1 Davidan and was formulas for the area of
Unit 6:	Why is finding area	1.	How can we use	2.	of a rectangle. The area of a triangle is half the area of a rectangle or	6.GM.1.1 Develop and use formulas for the area of squares
<u>Area</u>	important?		rectangles to help to	3.	parallelogram. The area of composite figures can	and parallelograms using a variety of methods including
Timing			find the area of other		be found by decomposing the polygon into rectangles and triangles.	but not limited to the standard algorithm.
3-4 weeks			quadrilaterals?			6.GM.1.2 Develop and use formulas to determine the area
5-4 weeks		2.	How can finding the			of triangles.

			area of other shapes			6.GM.1.3 Find the area of right triangles, other triangles,
Objectives			help to find the area			special quadrilaterals, and polygons that can be
6.GM.1.1			of a triangle?			decomposed into triangles and other shapes to solve real-
6.GM.1.2		3.	How can we find area			world and mathematical problems.
6.GM.1.3			without a formula for			6.A.3.1 Represent real-world or mathematical situations
<u>6.A.3.1</u> *			that shape?			using expressions, equations, and inequalities involving
<u>6.A.3.2</u> *						variables and rational numbers.
						6.A.3.2 Use number sense and properties of operations and
						equality to solve real-world and mathematical problems
						involving equations in the form $x+p=q$ and $px=q$,
						where p and q are nonnegative rational numbers. Graph the
						solution on a number line, interpret the solution in the
						original context, and assess the reasonableness of the
						solution.
Unit 7:	How can data analysis	1.	How can we analyze	1.	Mean, median, and mode are measures of central tendency that provide information about the	6.D.1.1 Calculate the mean, median, and mode for a set of
Data Analysis	be used in real-world		data?	2.	center of a data set. Box and whisker plots are used to represent the distribution of a data	real-world data
	scenarios?	2.	What information		set.	6.D.1.2 Explain and justify which measure of central
Timing			about a data set is			tendency (mean, median, or mode) would provide the most
1-2 weeks			gained from			descriptive information for a given set of data.
			analyzing a visual			6.D.1.3 Create and analyze box and whisker plots exploring
Objectives			representation for the			how each segment contains one-quarter of the data.
<u>6.D.1.1</u>			data?			6.N.3.3 Apply the relationship between ratios, equivalent
6.D.1.2						fractions, and percents to solve problems in various
6.D.1.3						contexts, including those involving mixture and
6.N.3.3 *						concentrations.
6.N.4.4 *						6.N.4.4 Solve and interpret real-world and mathematical
						problems including those involving money, measurement,
						geometry, and data requiring arithmetic with decimals,
						fractions, and mixed numbers.
<u>Unit 8:</u>	Why do we need to	1.	How can we	1. 2.	Probability can be used to predict the likelihood of events. Visual representations can be used	6.D.2.1 Represent possible outcomes using a probability
<u>Probability</u>	understand		recognize and		to show and compare sample space.	continuum from impossible to certain.
	probability?		compare patterns in			6.D.2.2 Determine the sample space for a given experiment
Timing			probability?			and determine which members of the sample space are

	1		
1-2 weeks	2.	How can the	related to certain events. Sample space may be determined
		likelihood of an event	by the use of tree diagrams, tables or pictorial
Objectives		be represented?	representations.
6.D.2.1			6.D.2.3 Demonstrate simple experiments in which the
6.D.2.2			probabilities are known and compare the resulting relative
6.D.2.3			frequencies with the known probabilities, recognizing that
6.N.1.4 *			there may be differences between the two results.
6.N.1.6 *			6.N.1.4 Determine equivalencies among fractions,
			decimals, and percents. Select among these representations
			to solve problems.
			6.N.1.6 Determine the greatest common factors and least
			common multiples. Use common factors and multiples to
			calculate with fractions, find equivalent fractions, and
			express the sum of two-digit numbers with a common
			factor using the distributive property.

"Assessment is standards based, and includes a variety of methods that guide instruction and inform instructional decisions. Student-centered assessment motivates, encourages and inspires students' passion for learning when it is delivered in a timely and reasonable manner and includes purposeful feedback." Students grade their own daily assignments with feedback given when they are unsure where they went wrong. Students will be informally assessed by tracking their own progress in their composition notebooks through the 4-0 Marzano's Performance Scale incorporated with Bloom's Taxonomy – analysis, application, comprehension, recognition and no knowledge. Students will be formally assessed through formative – daily assignments and quizzes and summative – unit tests and semester tests - assessment percentages.

¹ Scottsdale, Arizona Assessment Statement