Course/Subject: Math **CURRICULUM MAP** Grade: 6

	CURRICULUM *End Product of Learning, "What" You Teach*			***INSTRUCTION*** *Means to the End Product, "How" You Teach*	***ASSESSMENT*** *Validation to Revise Curriculum & Instruction*
TIME FRAME [By Date/Week/ Month]	**STANDARD OR BENCHMARK**	**CONTENT: What we want students to "KNOW".**	**SKILL: What we want students to "DO".**	**Varied Teaching/Learning Strategies Resources/Comments**	**Varied Classroom Assessment Strategies**
September Chapter 1	**CCSS** **6.EE.1** **6.EE.2** **6.EE.9** **6.G.1** **6.A.3** Represent fractions, decimals, per-centages, exponents and scientific notation in equivalent forms. **6.B.3a** Solve practical computation problems involving whole numbers, integers and rational numbers. **6.B.3c** Identify	-Extending patterns -Variable expressions and powers -Order of operations -Equations and mental math - Formulas for area and perimeter -Using a problem solving plan	-Describe and extend patterns to solve problems -Evaluate expressions and solve equations -Find perimeter and area	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal Assessments Pre-Tests

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	and apply properties of real numbers including pi, squares, and square roots. **6.C.3a** Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions. **7.C.3a** Construct a simple scale drawing for a given situation. **7.C.3b** Use concrete and graphic models and appropriate formulas to find perimeters, areas, surface areas and volumes of two- and three-dimensional regions. **8.A.3a** Apply the				

	basic properties of commutative, associative, distributive, transitive, inverse, identity, zero, equality and order of operations to solve problems. **8.B.3** Use graphing technology and algebraic methods to analyze and predict linear relationships and make generalizations from linear patterns. **8.D.3a** Solve problems using numeric, graphic or symbolic representations of variables, expressions, equations and inequalities. **8.D.3c** Apply properties of powers, perfect				

	squares and square roots.				

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September & October Chapter 2	**CCSS** **6.NS.2** **6.NS.3** **6.A.3** Represent fractions, decimals, per-centages, exponents and scientific notation in equivalent forms. **6.B.3a** Solve practical computation problems involving whole numbers, integers	-Comparing and rounding decimals -Adding, subtracting, multiplying, and dividing decimals -Scientific notation -The metric system	-Perform operations with decimals -Write numbers in scientific notation -Measure in the metric system and convert metric units	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal Assessments Pre-Tests

	and rational numbers. **6.C.3a** Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions. **6.C.3b** Show evidence that computational results using whole numbers, fractions, decimals, percents and proportions are correct and/or that estimates are reasonable. **7.A.3a** Measure length, capacity, weight/mass and angles using sophisticated instruments (e.g., compass, protractor, trundle wheel).				

	7.A.3b Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures in practical situations. **7.B.3** Select and apply instruments including rulers and protractors and units of measure to the degree of accuracy required.				

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October Chapter 3	**CCSS** **6.SP.1** **6.SP.2** **6.SP.3**	-Mean, median, mode, and range -Bar graphs and line graphs	-Find the mean, median, and mode of a data set	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework

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	6.SP.4 **6.SP.5** *** 6.SP.5a** *** 6.SP.5b** *** 6.SP.5c** *** 6.SP.5d** **6.B.3a** Solve practical computation problems involving whole numbers, integers and rational numbers. **10.A.3a** Construct, read and interpret tables, graphs (including circle graphs) and charts to organize and represent data. **10.A.3b** Compare the mean, median, mode and range, with and without the use of technology. **10.A.3c** Test the	-Stem and leaf plots -Box and whisker plots -Histograms	-Make and interpret different types of data displays -Choose an appropriate display for a data set		Discussion Formal Assessments Pre-Tests

	reasonableness of an argument based on data and communicate their findings. **10.B.3** Formulate questions (e.g., relationships between car age and mileage, average incomes and years of schooling), devise and conduct experiments or simulations, gather data, draw conclusions and communicate results to an audience using traditional methods and contemporary technologies.				

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November	**CCSS**	-Finding greatest common factors and	-Find greatest common factors	6th Grade Math textbook Challenge Day	Informal Observations

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Chapter 4	**6.NS.1** **6.NS.4** **6.RP.3** *** 6.RP.3c** *** 6.RP.3d** **6.A.3** Represent fractions, decimals, per-centages, exponents and scientific notation in equivalent forms. **6.B.3a** Solve practical computation problems involving whole numbers, integers and rational numbers. **6.B.3b** Apply primes, factors, divisors, multiples, common factors and common multiples in solving problems. **6.C.3a** Select computational	least common multiples -Comparing and ordering fractions and mixed numbers -Writing fractions as decimals and decimals as fractions	and least common multiples -Identify equivalent fractions and write fractions in simplest form -Compare and convert between fractions, mixed numbers, and decimals	BrainPop Independent work Cooperative group work	Daily Assessments Homework Discussion Formal Assessments Pre-Tests

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	procedures and solve problems with whole numbers, fractions, decimals, percents and proportions. **6.C.3b** Show evidence that computational results using whole numbers, fractions, decimals, percents and proportions are correct and/or that estimates are reasonable. **6.D.3** Apply ratios and proportions to solve practical problems. **7.C.3a** Construct a simple scale drawing for a given situatio **10.A.3a** Construct, read and interpret				

	tables, graphs (including circle graphs) and charts to organize and represent data.				

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November/ December Chapter 5	**CCSS** **6.NS.1** **6.A.3** Represent fractions, decimals, per-centages, exponents and scientific notation in equivalent forms. **6.B.3a** Solve practical computation problems involving whole numbers, integers and rational numbers.	-Adding and subtracting fractions and mixed numbers -Multiplying and dividing fractions and mixed numbers -Customary units	-Add and subtract fractions and mixed numbers -Multiply and divide fractions and mixed numbers -Measure in the U.S. customary system and convert customary units	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal Assessments Pre-Tests

	6.B.3b Apply primes, factors, divisors, multiples, common factors and common multiples in solving problems. **6.C.3a** Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions. **7.A.3a** Measure length, capacity, weight/mass and angles using sophisticated instruments (e.g., compass, protractor, trundle wheel). **7.A.3b** Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area,				

	volume, time, temperature and angle measures in practical situations. **7.B.3** Select and apply instruments including rulers and protractors and units of measure to the degree of accuracy required. **7.C.3a** Construct a simple scale drawing for a given situation				

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December/ January Chapter 6	**CCSS** **6.NS.5** **6.NS.6** *** 6.NS.6a** *** 6.NS.6b** *** 6.NS.6c** **6.NS.7**	-Comparing and ordering integers -Performing integer operations -Rational numbers	-Perform operations with integers and rational numbers -Use the distributive property to rewrite	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal Assessments

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	*** 6.NS.7a** *** 6.NS.7b** *** 6.NS.7c** *** 6.NS.7d** **6.NS.8** **6.A.3** Represent fractions, decimals, per-centages, exponents and scientific notation in equivalent forms. **6.C.3a** Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions. **6.B.3a** Solve practical computation problems involving whole numbers, integers and rational numbers.	-Graphing in coordinate plane	and evaluate expressions -Identify and plot points in a coordinate plane		Pre-Tests

	6.C.3b Show evidence that computational results using whole numbers, fractions, decimals, percents and proportions are correct and/or that estimates are reasonable. **7.A.3b** Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures in practical situations. **8.A.3a** Apply the basic properties of commutative, associative, distributive, transitive, inverse, identity, zero, equality and order of operations to solve problems.				

	8.D.3c Apply properties of powers, perfect squares and square roots. **9.D.3** Compute distances, lengths and measures of angles using proportions, the Pythagorean theorem and its converse. **10.A.3a** Construct, read and interpret tables, graphs (including circle graphs) and charts to organize and represent data. **10.A.3b** Compare the mean, median, mode and range, with and without the use of technology. **10.B.3** Formulate questions (e.g.,				

	relationships between car age and mileage, average incomes and years of schooling), devise and conduct experiments or simulations, gather data, draw conclusions and communicate results to an audience using traditional methods and contemporary technologies.				

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January/ February Chapter 7	**CCSS** **6.EE.1** **6.EE.2** ***6.EE.2a** ***6.EE.2b** ***6.EE.2c** **6.EE.3** **6.EE.4** **6.EE.5**	-Writing expressions and equations -Simplifying expressions -Solving equations and inequalities -Using equations,	-Write and simplify variable expressions -Write and solve equations and inequalities -Write, evaluate, and graph	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal Assessments Pre-Tests

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	6.EE.6 **6.EE.9** **6.RP.3** *** 6.RP.3a** *** 6.RP.3b** **7.C.3b** Use concrete and graphic models and appropriate formulas to find perimeters, areas, surface areas and volumes of two- and three-dimensional regions. **8.A.3a** Apply the basic properties of commutative, associative, distributive, transitive, inverse, identity, zero, equality and order of operations to solve problems. **8.A.3b** Solve problems using linear expres-sions, equations and inequalities.	tables, and graphs to represent functions	functions		

	8.B.3 Use graphing technology and algebraic methods to analyze and predict linear relationships and make generalizations from linear patterns. **8.C.3** Apply the properties of numbers and operations including inverses in algebraic settings derived from economics, business and the sciences. **8.D.**3a Solve problems using numeric, graphic or symbolic representations of variables, expressions, equations and inequalities. **8.D.3b** Propose				

	and solve problems using proportions, formulas and linear functions.				

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February/ March Chapter 8	**CCSS** **6.RP.1** **6.RP.2** **6.RP.3** *** 6.RP.3a** *** 6.RP.3b** *** 6.RP.3c** *** 6.RP.3d** **6.NS.6** *** 6.NS.6c** **6.NS.8** **6.A.3** Represent fractions, decimals, per-centages, exponents and scientific notation in equivalent forms.	-Ratios -Rates and unit rates -Slope -Solving proportions -Scale drawings	-Write and compare ratios and rates -Find the slope of a line -Write and solve proportions	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal Assessments Pre-Tests

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	6.B.3a Solve practical computation problems involving whole numbers, integers and rational numbers. **6.B.3b** Apply primes, factors, divisors, multiples, common factors and common multiples in solving problems. **6.C.3a** Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions. **6.D.3** Apply ratios and proportions to solve practical problems.				

	7.C.3a Construct a simple scale drawing for a given situation. **8.B.3** Use graphing technology and algebraic methods to analyze and predict linear relationships and make generalizations from linear patterns. **8.D.3b** Propose and solve problems using proportions, formulas and linear functions.				

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March/ April Chapter 9	**CCSS** **6.RP.3** *** 6.RP.3c**	- Writing fractions and decimals as percents	-Convert between percents, fractions, and	6th Grade Math textbook Challenge Day BrainPop Independent work	Informal Observations Daily Assessments

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	*** 6.RP.3d** **6.SP.4** **6.EE.7** **6.A.3** Represent fractions, decimals, percentages, exponents and scientific notation in equivalent forms. **6.C.3a** Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions. **6.D.3** Apply ratios and proportions to solve practical problems. **7.A.3a** Measure length, capacity, weight/mass and angles using	-Solving percent problems -Circle graphs -Discounts, markups, sales tax, tip, and simple interest	decimals -Use proportions and the percent equation to solve percent problems -Use percents to make circle graphs and solve real-world problems	Cooperative group work	Homework Discussion Formal Assessments Pre-Tests

	sophisticated instruments (e.g., compass, protractor, trundle wheel). **7.A.3b** Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures in practical situations. **7.B.3** Select and apply instruments including rulers and protractors and units of measure to the degree of accuracy required. **8.C.3** Apply the properties of numbers and operations including inverses in algebraic settings derived from economics,				

	business and the sciences. **8.D.3b** Propose and solve problems using proportions, formulas and linear functions. **10.A.3a** Construct, read and interpret tables, graphs (including circle graphs) and charts to organize and represent data.				

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April Chapter 10	**CCSS** **6.G.3** **6.RP.3** *** 6.RP.3d**	-Angles, triangles, and other polygons -Congruent and similar polygons -Transformations	-Classify angles, triangles, and other polygons -Use properties of congruent and similar polygons	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal

	6.C.3a Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions. **6.D.3** Apply ratios and proportions to solve practical problems. **7.B.3** Select and apply instruments including rulers and protractors and units of measure to the degree of accuracy required. **7.C.3b** Use concrete and graphic models and appropriate formulas to find perimeters, areas, surface areas and volumes of two-		to solve problems -Describe transformations and symmetry of geometric figures		Assessments Pre-Tests

	and three-dimensional regions. **8.D.3b** Propose and solve problems using proportions, formulas and linear functions. **9.A.3a** Draw or construct two- and three-dimensional geometric figures including prisms, pyramids, cylinders and cones. **9.A.3b** Draw transformation images of figures, with and without the use of technology. **9.A.3c** Use concepts of symmetry, congruency, similarity, scale, perspective, and angles to describe and				

	analyze two- and three-dimensional shapes found in practical applica-tions (e.g., geodesic domes, A-frame houses, basketball courts, inclined planes, art forms, blueprints). **9.B.3** Identify, describe, classify and compare two- and three-dimensional geometric figures and models according to their properties. **9.C.3a** Construct, develop and communicate logical arguments (informal proofs) about geometric figures and patterns. **9.C.3b** Develop and solve problems using geometric relationships and				

	models, with and without the use of technology. **9.D.3** Compute distances, lengths and measures of angles using proportions, the Pythagorean theorem and its converse.				

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April/May Chapter 11	**CCSS** **6.G.1** **6.B.3c** Identify and apply properties of real numbers including pi,	-Square roots -The Pythagorean theorem -Areas of parallelograms, triangles, trapezoids, and circles	-Use square roots and the Pythagorean Theorem to solve problems -Find areas of parallelograms, triangles, and trapezoids	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal Assessments Pre-Tests

	squares, and square roots. **6.C.3a** Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions. **6.C.3b** Show evidence that computational results using whole numbers, fractions, decimals, percents and proportions are correct and/or that estimates are reasonable. **7.A.3b** Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures		-Find circumference and area of circles		

	in practical situations. **7.C.3b** Use concrete and graphic models and appropriate formulas to find perimeters, areas, surface areas and volumes of two- and three-dimensional regions. **8.C.3** Apply the properties of numbers and operations including inverses in algebraic settings derived from economics, business and the sciences. **8.D.3a** Solve problems using numeric, graphic or symbolic representations of variables, expressions, equations and inequalities.				

	8.D.3b Propose and solve problems using proportions, formulas and linear functions. **8.D.3c** Apply properties of powers, perfect squares and square roots. **9.C.3a** Construct, develop and communicate logical arguments (informal proofs) about geometric figures and patterns. **9.C.3b** Develop and solve problems using geometric relationships and models, with and without the use of technology. **9.D.3** Compute distances, lengths and measures of angles using proportions, the				

	Pythagorean theorem and its converse.				

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May Chapter 12	**CCSS** **6.G.2** **6.G.4** **6.B.3c** Identify and apply properties of real numbers including pi, squares, and square roots. **6.C.3a** Select computational procedures and solve problems with whole numbers, fractions,	-Classifying solids -Sketching solids -Finding the surface area and volume of rectangular prisms and cylinders	-Classify and sketch solids -Find surface areas of rectangular prisms and cylinders -Find volumes of rectangular prisms and cylinders	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal Assessments Pre-Tests

	decimals, percents and proportions. **7.C.3b** Use concrete and graphic models and appropriate formulas to find perimeters, areas, surface areas and volumes of two- and three-dimensional regions. **8.D.3b** Propose and solve problems using proportions, formulas and linear functions. **9.A.3a** Draw or construct two- and three-dimensional geometric figures including prisms, pyramids, cylinders and cones. **9.B.3** Identify, describe, classify and compare two-				

	and three-dimensional geometric figures and models according to their properties. **9.C.3b** Develop and solve problems using geometric relationships and models, with and without the use of technology.				

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May/June Chapter 13	**CCSS** **6.C.3a** Select computational procedures and solve problems with whole numbers,	-Tree diagrams -The counting principle -Permutations and combinations -Probabilities of events	-Find theoretical and experimental probabilities -Use tree diagrams, the counting principle, permutations, and combinations to solve problems	6th Grade Math textbook Challenge Day BrainPop Independent work Cooperative group work	Informal Observations Daily Assessments Homework Discussion Formal Assessments Pre-Tests

	fractions, decimals, percents and proportions. **6.D.3** Apply ratios and proportions to solve practical problems. **8.D.3b** Propose and solve problems using proportions, formulas and linear functions. **10.A.3a** Construct, read and interpret tables, graphs (including circle graphs) and charts to organize and represent data **10.B.3** Formulate questions (e.g., relationships between car age and mileage, average incomes and years of schooling), devise		-Find probabilities to disjoint, independent, and dependent events		

	and conduct experiments or simulations, gather data, draw conclusions and communicate results to an audience using traditional methods and contemporary technologies. **10.C.3a** Determine the probability and odds of events using fundamental counting principles **10.C.3b** Analyze problem situations: (e.g., board games, grading scales) and make predictions about results				

Notes: 6.EE.8 is not covered in the curriculum.