

STRAND	STANDARD	OBJECTIVES (What it looks like in the classroom) The learner will ...	# OF DAYS NEEDED FOR MASTERY	DATES TAUGHT	DATE ASSESSED	ASSESSMENT TYPE (classroom, STAR, objective, subjective, project, etc.)	RESOURCES (Materials , web sites, auto- visual, print)	LEARNING ACTIVITIES
12.1 NUMERATION /NUMBER SENSE	12.1.1 By the end of twelfth grade, students will describe and compare the relationships between subsets of real numbers.							
	12.1.2 By the end of twelfth grade, students will express the equivalent forms of numbers using exponents, radicals, scientific notation, absolute values, fractions, decimals, and percents.							

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12..2 COMPUTATION /ESTIMATION	12.2.1 By the end of twelfth grade, students will solve theoretical and applied problems using numbers in equivalent forms, radicals, exponents, scientific notation, absolute values, fractions, decimals, and percents, ratios and proportions, order of operations, and properties of real numbers.							
	12.2.2 By the end of twelfth grade, students will justify solutions to mathematical problems.							
	12.2.3 By the end of twelfth grade, students will perform estimations and computations of real numbers mentally, with paper and pencil, and with technology.							

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12..3 MEASUREMENT	12.3.1 By the end of twelfth grade, students will select and use measuring units, tools, and/or technology and explain the degree of accuracy and precision of measurements.	Measure segments and angles (1)	1 week	Aug.	Aug.	Classroom	Textbook	
	12.3.2 By the end of twelfth grade, students will convert between metric and standard units of measurement, given conversion factors.							
12.4 GEOMETRY /SPATIAL CONCEPT	12.4.1 By the end of twelfth grade, students will calculate perimeter and area of two-dimensional shapes and surface area and volume of three-dimensional shapes.	Find the perimeter and area of quadrilaterals (8)	1 week	Jan.	Jan.	Classroom	Textbook	
		Find the circumference and area of circles (8)	1 week	Jan.	Feb.	Classroom	Textbook	

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		Find the surface area and volume of solids (9)	2-3 weeks	Feb.	March	Classroom	Textbook	
	12.4.2 By the end of twelfth grade, students will create geometric models to describe the physical world.	Identify and draw dilations (7)	1 week	Jan.	Jan.	Classroom	Textbook	
	12.4.3 By the end of twelfth grade, students will evaluate characteristics and properties of two- and three-dimensional geometric shapes.	Classify triangles and finding their angle measures (4)	2-3 weeks	Oct.	Oct.	Classroom	Textbook	
	12.4.4 By the end of twelfth grade, students will apply coordinate geometry to locate and describe objects algebraically.	Identify rotations in a plane (11)	2-3 weeks	Apr.	May	Classroom	Textbook	
	12.4.5 By the end of twelfth grade, students will apply right triangle trigonometry to find length and angle measures.	Find side lengths of special triangles (10)	1-2 weeks	March	March	Classroom	Textbook	

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		Find trigonometric ratios of acute triangles (10)	1-2 weeks	Apr.	Apr.	Classroom	Textbook	
	12.4.6 By the end of twelfth grade, students will apply geometric properties to solve problems.	Use properties of equality and congruence (2)	1-2 weeks	Sept.	Sept.	Classroom	Textbook	
		Use properties of parallel and perpendicular lines (3)	2 weeks	Sept.	Oct.	Classroom	Textbook	
		Use properties of quadrilaterals (6)	2-3 weeks	Nov.	Dec.	Classroom	Textbook	
	12.4.7 By the end of twelfth grade, students will apply deductive reasoning to arrive at a conclusion.	Make predictions and conjectures based on patterns (1)	1 week	Aug.	Aug.	Classroom	Textbook	
		Show triangles are congruent (5)	2-3 weeks	Nov.	Nov.	Classroom	Textbook	

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12.5 Probability and Statistics	12.5.1 By the end of twelfth grade, students will select a sampling technique to gather data, analyze the resulting data and make inferences.							
	12.5.2 By the end of twelfth grade, students will write equations and make predictions from sets of data.							
	12.5.3 By the end of twelfth grade, students will apply theoretical probability to represent problems and make decisions.							
	12.5.4 By the end of twelfth grade, students will evaluate how transformations on data affect the measures of central tendency and variability.							

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	12.5.5 By the end of twelfth grade, students will interpret data represented by the normal distribution and formulate conclusions.							
	12.5.6 By the end of twelfth grade, students will calculate probabilities of independent events.							
12.6 ALGEBRAIC CONCEPTS	12.6.1 By the end of twelfth grade, students will graph and interpret algebraic relations and inequalities.							
	12.6.2 By the end of twelfth grade, students will solve problems involving equations and inequalities.							
	12.6.3 By the end of twelfth grade, students will solve problems involving systems of two equations, and systems of two or more inequalities.							

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	12.6.4 By the end of twelfth grade, students will solve problems using patterns and functions.							