

STRAND	STANDARD	OBJECTIVES (What it looks like in the classroom) The learner will ...	# OF DAYS NEEDED FOR MASTERY	DATES TAUGHT	DATE ASSESSED	ASSESS MENT TYPE (classroom, STAR, objective, subjective, project, etc.)	RESOU RCES (Materia ls, 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.							
	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.	Describe and measure geometric figures (1)	1-2 weeks	Aug	Aug	Classroom	Textbook	
		Use area formulas for polygons (11)	2-3 weeks	Mar-Apr	Apr	Classroom	Textbook	
		Solve surface area and volume of solids (12)	2-3 weeks	Apr-May	May	Classroom	Textbook	

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	12.4.2 By the end of twelfth grade, students will create geometric models to describe the physical world.	Make real-world connections to symmetry and tessellations (9)	1 week	Feb	Feb	Classroom	Textbook	
	12.4.3 By the end of twelfth grade, students will evaluate characteristics and properties of two- and three-dimensional geometric shapes.	Understand equality and congruence (1)	1 week	Aug	Aug	Classroom	Textbook	
		Distinguish relationships within triangles (5)	2-3 weeks	Nov	Nov	Classroom	Textbook	
		Classify quadrilaterals by their properties (8)	1-2 weeks	Jan-Feb	Feb	Classroom	Textbook	
		Relate length, perimeter, and area ratios in similar polygons (11)	1-2 weeks	Mar-Apr	Apr	Classroom	Textbook	
	12.4.4 By the end of twelfth grade, students will apply coordinate geometry to locate and describe objects algebraically.	Use coordinate geometry to investigate triangle relationships (4)	1 week	Oct	Oct	Classroom	Textbook	
		Use circles in the coordinate plane (10)	1 week	Mar	Mar	Classroom	Textbook	

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	12.4.5 By the end of twelfth grade, students will apply right triangle trigonometry to find length and angle measures.	Use special relationships in right triangles (7)	1 week	Jan	Jan	Classroom	Textbook	
		Use trigonometric ratios to solve right triangles (7)	1-2 weeks	Jan	Jan	Classroom	Textbook	
	12.4.6 By the end of twelfth grade, students will apply geometric properties to solve problems.	Use properties of parallel and perpendicular lines (3)	2-3 weeks	Sept -Oct	Oct	Classroom	Textbook	
		Show that triangles are similar (6)	2 weeks	Nov-Dec	Dec	Classroom	Textbook	
		Classify quadrilaterals by their properties (8)	1-2 weeks	Jan-Feb	Feb	Classroom	Textbook	
		Apply angle relationships in circles (10)	1-2 weeks	Mar	Mar	Classroom	Textbook	
	12.4.7 By the end of twelfth grade, students will apply deductive reasoning to arrive at a conclusion.	Use inductive and deductive reasoning (2)	1-2 weeks	Sept	Sept	Classroom	Textbook	
		Write proofs of geometric relationships (2)	2 weeks	Sept	Sept	Classroom	Textbook	
		Prove triangles are congruent (4)	1-2 weeks	Oct	Oct	Classroom	Textbook	

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		Show that triangles are similar (6)	2 weeks	Nov-Dec	Dec	Classroom	Textbook	
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.							