

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.	TLW recognize, name, write and compare natural numbers, whole numbers, and rational numbers.	Varies	Ongoing	Sept.-Nov.	Classroom		Manipulatives, computer tutorials, games, guided practice
	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.	TLW compare, order, and determine equivalencies among fractions, decimals and percents.	Varies	Ongoing	Oct.-Dec.	Classroom		Manipulatives, computer tutorials, games, guided practice
		TLW compare and order integers (positive and negative numbers).	Varies	March/April	April	Classroom		Manipulatives, computer tutorials, games, guided practice

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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.	TLW solve word problems, applying the appropriate operation(s) and problem-solving strategies.	Varies	Ongoing	Varies	Classroom		Manipulatives, computer tutorials, games, guided practice
	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.	TLW identify greatest common factors and least common multiples between two and three numbers.	Varies	Sept.-Nov.	Oct./Nov.	Classroom		Manipulatives, computer tutorials, games, guided practice

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		TLW add, subtract, multiply and divide decimals, proper and improper fractions with common and uncommon denominators, with and without the use of technology.	Varies	Sept.-Nov	Oct./Nov.	Classroom		Manipulatives, computer tutorials, games, guided practice
		TLW perform operations on integers (positive and negative numbers).	Varies	March/April	April	Classroom		Manipulatives, computer tutorials, games, guided practice
		TLW apply the order of operations to solve equations	Varies	Dec.	Dec.	Classroom		Manipulatives, computer tutorials, games, guided practice

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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.	TLW calculate perimeter and area of two dimensional shapes and volume of three-dimensional shapes.	Varies	May	May	Classroom		Manipulatives, computer tutorials, games, guided practice

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	12.4.2 By the end of twelfth grade, students will create geometric models to describe the physical world.							
	12.4.3 By the end of twelfth grade, students will evaluate characteristics and properties of two- and three-dimensional geometric shapes.							
	12.4.4 By the end of twelfth grade, students will apply coordinate geometry to locate and describe objects algebraically.	TLW apply coordinate geometry to plot points and graph linear equations.	Varies	April-May	May	Classroom		Manipulatives, computer tutorials, games, guided practice
	12.4.5 By the end of twelfth grade, students will apply right triangle trigonometry to find length and angle measures.							

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	12.4.6 By the end of twelfth grade, students will apply geometric properties to solve problems.							
	12.4.7 By the end of twelfth grade, students will apply deductive reasoning to arrive at a conclusion.							
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.							

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	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.							
	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.							

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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.	TLW solve one- and two-step algebraic equations.	Varies	April-May	May	Classroom		Manipulatives, computer tutorials, games, guided practice
	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.							
	12.6.4 By the end of twelfth grade, students will solve problems using patterns and functions.							