

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.	Write and compare types of real numbers (2)	1-2	September	September	Classroom		
	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.	Write and perform operations on numbers in scientific notation (8.5)	3-4	September-October	September-October	Classroom		
		Use and simplify radical numbers (9.3,12.2)	3-4	Nov, Ma y	Nov, Ma y	Classroom		
		Solve problems involving exponent properties (8)	3-4	Sept-Oct	Sept-Oct	Classroom		

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
		Graph and interpret interest and other exponential growth functions (8)	3-4	Sept-Oct	Sept-Oct	Classroom		
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.	Approximate radical numbers (9.1)	1-2	October	October	Classroom		
		perform operations on numbers in scientific notation (8.5)	1-2	Sept-Oct	Sept-Oct	Classroom		
		use proportions to solve percent problems (3.9, 11.1)	1-2	Oct,May	Oct,May	Classroom		

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
		solve and graph equations with absolute values (6.6,6.7)	1-2	May	May	Classroom		
		Solve equations involving radicals (9)	1-2	Nov	Nov	Classroom		
	12.2.2 By the end of twelfth grade, students will justify solutions to mathematical problems.	Determine reasonableness of a solution		ongoing	ongoing	Classroom		
	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.	Estimate solutions, solve equations with mental math and estimation		ongoing	ongoing	Classroom		

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
12.3 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.							

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
	12.4.2 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.	Use distance and midpoint formulas (12)	2-3	May	May	Classroom		
	12.4.5 By the end of twelfth grade, students will apply right triangle trigonometry to find length and angle measures.							

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
	12.4.6 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.	Collect, organize and interpret data		ongoing	ongoing	<b>Classroom</b>		
	12.5.2 By the end of twelfth grade, students will write equations and make predictions from sets of data.	Collect, organize and interpret data		ongoing	ongoing	<b>Classroom</b>		

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
	12.5.3 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.							

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
12.6 ALGEBRAIC CONCEPTS	12.6.1 By the end of twelfth grade, students will graph and interpret algebraic relations and inequalities.	Graph linear eq's and inequalities (4)	2-3	Dec-Jan	Dec-Jan	Classroom		
		Write equations in different forms (slope-int, point-slope) (5)	4-5	Jan-Feb	Jan-Feb	Classroom		
		Graph quadratic eq's and ineq's (9)	2-3	October	October	Classroom		
		Write, evaluate and simplify algebraic expressions (1)	1-2	August	August	Classroom		
	12.6.2 By the end of twelfth grade, students will solve problems involving equations and inequalities.	solve problems involving linear equations and inequalities (3, 6)	2-3	Sept, Dec	Sept, Dec	Classroom		
		Solve quadratic equations and inequalities (9,10)	2-3	Oct-Nov	Oct-Nov	Classroom		



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
		Solve literal equations (3.7)	2-3	October	October	Classroom		
	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.	solve systems of linear equations and inequalities (7)	2-3	August	August	Classroom		
	12.6.4 By the end of twelfth grade, students will solve problems using patterns and functions.	Graph and interpret exponent functions (8)	2-3	Sept-Oct	Sept-Oct	Classroom		
		Graph and perform operations on rational functions (11)	2-3	April-May	April-May	Classroom		