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)	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 (8.4)	2-3	Jan-Feb	Jan-Feb	**Classroom**		
		Use and simplify radical numbers (11)	2-3	April	April	**Classroom**		
		Solve problems involving exponent properties (8)	3-4	Jan-Feb	Jan-Feb	**Classroom**		

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		Graph and interpret interest and other exponential growth functions (8.5)	2-3	Jan-Feb	Jan-Feb	**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 (2.7)	1-2	September	September	**Classroom**		
		perform operations on numbers in scientific notation (8.4)	2-3	Jan-Feb	Jan-Feb	**Classroom**		
		use proportions to solve percent problems (3.7)	1-2	October	October	**Classroom**		

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		solve and graph equations with absolute values (6.5,6.6)	1-2	December	December	**Classroom**		
		Solve equations involving radicals (11)	1-2	April	April	**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**		

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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.	Apply formulas to determine area and volume of shapes (3, 11)	1-2	September, April	September, April	**Classroom**		

York Public Schools   Math, Algebra

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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.	Use distance and midpoint formulas (11.5)	**2-3**	**April**	**April**	**Classroom**		
	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.	Collect, organize and interpret data		ongoing	ongoing	**Classroom**		
	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	**Classroom**		

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	12.5.3 By the end of twelfth grade, students will apply theoretical probability to represent problems and make decisions.	Examine and apply theoretical probability of events (13.1)	1-2	May	May	**Classroom**		
	12.5.4 By the end of twelfth grade, students will evaluate how transformations on data affect the measures of central tendency and variability.	Analyze and predict measures of central tendency (13.6)	1	May	May	**Classroom**		
	12.5.5 By the end of twelfth grade, students will interpret data represented by the normal distribution and formulate conclusions.	Analyze and predict measures of central tendency (13.6)	1	May	May	**Classroom**		
	12.5.6 By the end of twelfth grade, students will calculate probabilities of independent events.	Examine and apply theoretical and experimental probability of events using properties of probability(13)	4-5	May	May	**Classroom**		

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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.	Graph linear eq's and inequalities (4)	2-3	October	October	**Classroom**		
		Write equations in different forms (slope-int, point-slope) (5)	4-5	Nov.	Nov.	**Classroom**		
		Graph quadratic eq's and ineq's (10)	2-3	March	March	**Classroom**		
		Write, evaluate and simplify algebraic expressions (1.1)	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	March	March	**Classroom**		

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		Solve literal equations (3.8)	2-3	September	September	**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	January	January	**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	Jan-Feb	Jan-Feb	**Classroom**		
		Graph and perform operations on rational functions (12)	2-3	April-May	April-May	**Classroom**		