

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, websites, 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.	<b>Compare the relationships between subsets of real numbers.</b>	2-3	Aug.	Aug.	classroom	McDougal-Littel Algebra 2	<b>Direct instruction, guided practice, clicker review</b>
	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.	<b>Express equivalent forms of numbers using radicals, scientific notation, and absolute values.</b>	6-7	Mid-March	End March	classroom	McDougal-Littel Algebra 2	<b>Direct instruction, guided practice, clicker review</b>

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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.	<b>Apply properties of rational exponents.</b>	<b>10-14</b>	<b>Aug.-May</b>	<b>Various different classroom assessments. STARS assessment in early April</b>	<b>classroom STARS</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>
		<b>Model direct, inverse, and joint variation.</b>	<b>7-8</b>	<b>Sept</b>	<b>Sept</b>	<b>classroom</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>
	12.2.2 By the end of twelfth grade, students will justify solutions to mathematical problems.							

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	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.							
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.							

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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.							
	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.							

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	12.4.4 By the end of twelfth grade, students will apply coordinate geometry to locate and describe objects algebraically.							
	12.4.5 By the end of twelfth grade, students will apply right triangle trigonometry to find length and angle measures.							
	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.							

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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.	<b>Find and graph measures of central tendency.</b>	<b>2-3</b>	<b>Early April</b>	<b>STARS in Mid-April</b>	<b>classroom STARS</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, group practice</b>
	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.	<b>Apply counting methods and probability of overlapping, independent and dependent events.</b>	<b>4-5</b>	<b>MidApril</b>	<b>STARS in Mid-April</b>	<b>classroom STARS</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, group practice, probability activities</b>

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	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.							
12.6 ALGEBRAIC CONCEPTS	12.6.1 By the end of twelfth grade, students will graph and interpret algebraic relations and inequalities.	<b>Write, solve, graph and apply equations and inequalities.</b>	<b>8-10</b>	<b>Aug.-May</b>	<b>Various classroom assessments.</b>	<b>classroom STARS</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>

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		<b>Perform operations on and analyze graphs of polynomial functions.</b>	<b>6-8</b>	<b>Jan-Feb.</b>	<b>Early Feb.</b>	<b>classroom</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>
		<b>Solve, graph and apply logarithmic functions.</b>	<b>8-10</b>	<b>April</b>	<b>End of April</b>	<b>classroom</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>
		<b>Use inverse functions and graph square root and cube root functions.</b>	<b>6-8</b>	<b>March-April</b>	<b>March. STARS in early March</b>	<b>classroom STARS</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>
	12.6.2 By the end of twelfth grade, students will solve problems involving equations and inequalities.	<b>Write, solve, graph and apply equations and inequalities.</b>	<b>10-12</b>	<b>Sept</b>	<b>Mid-Sept.</b>	<b>classroom STARS</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>



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		<b>Solve quadratic functions by graphing, factoring, completing the square, and by applying the quadratic formula.</b>	<b>14-16</b>	<b>Nov-Dec.</b>	<b>Mid-Dec.</b>	<b>classroom STARS</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>
	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.	<b>Solve linear systems algebraically, by graphing and by applying matrix operations.</b>	<b>8-10</b>	<b>Oct.-Nov</b>	<b>Mid-Nov.</b>	<b>classroom</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>
	12.6.4 By the end of twelfth grade, students will solve problems using patterns and functions.	<b>Perform operations on rational functions.</b>	<b>8-10</b>	<b>May</b>	<b>Mid-May</b>	<b>classroom</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>

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		<b>Solve, graph and apply quadratic relations and conic sections.</b>	<b>18-20</b>	<b>Feb.-March</b>	<b>Mid-March</b>	<b>classroom</b>	<b>McDougal-Littel Algebra 2, internet resources, Glogster</b>	<b>Direct instruction, guided practice, clicker review, parabola projects.</b>
	(Additional)	<b>Apply and graph exponential growth and decay functions.</b>	<b>2-3</b>	<b>April</b>	<b>Mid-April</b>	<b>classroom</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>
	(Additional)	<b>Perform operations on complex numbers.</b>	<b>10-12</b>	<b>Nov-Dec</b>	<b>Mid-Dec.</b>	<b>classroom</b>	<b>McDougal-Littel Algebra 2</b>	<b>Direct instruction, guided practice, clicker review</b>