

UNITS	STANDARD	OBJECTIVES (What it looks like in the classroom) The learner will ...	NUMBER OF DAYS TAUGHT	DATE ASSESSED	ASSESSMENT TYPE	RESOURCES (Materials, web sites, auto- visual, print)	LEARNING ACTIVITIES AND VOCABULARY
Real Numbers and Number Operations	12.1.1 Students will represent and show relationships among real numbers	Compare the relationships between subsets of real numbers (1)	1 Week	Aug.	classroom	McDougal- Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review
Solve Equations and Inequalities	12.3.3 Students will represent and solve equations and inequalities.	Write, solve, graph and apply equations and inequalities (2)	2-3 Weeks	Sept.	classroom	McDougal- Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review
Direct Variation	12.3.2 Students will model and analyze quantitative relationships.	Model direct, inverse, and joint variation (2)	1-2 Weeks	Sept.	classroom	McDougal- Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review
Systems of Linear Equations	12.3.3 Students will represent and solve equations and inequalities	Solve linear systems algebraically, by graphing and by applying matrix operations (3)	2 Weeks	Mid-Nov.	classroom	McDougal- Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review

Quadratic Functions and Factoring	12.3.3 Students will represent and solve equations and inequalities	Solve quadratic functions by graphing, factoring, completing the square, finding square roots, and by applying the quadratic formula (5)	3 Weeks	Mid-Dec.	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review
Complex Numbers	12.1.1 Students will represent and show relationships among real numbers	Perform operations on complex numbers (5)	2 Weeks	Mid-Dec.	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review
Polynomials and Polynomial Functions	12.3.2 Students will model and analyze quantitative relationships.	Perform operations on and analyze graphs of polynomial functions (6)	1-2 Weeks	Early Feb.	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review
Powers, Roots, and Radicals	12.1.1 Students will represent and show relationships among real numbers.	Apply properties of rational exponents (7)	2 weeks	Feb.	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review
Function Operations and Composition of Functions	12.3.3 Students will represent and solve equations and inequalities	Use inverse functions and graph square root and cube root functions (7)	1-2 Weeks	Early April	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review

Data Analysis and Probability Concepts	12.4.3 Students will apply and analyze concepts of probability.	Apply counting methods and probability of overlapping, independent and dependent events (10)	1 Week	Mid-April	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, group practice, probability activities
Data Analysis and Probability Concepts	12.4.1 Students will develop and evaluate inferences to make predictions.	Find and graph measures of central tendency (10)	1 Week	Mid-April	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, group practice
Data Analysis and Probability Concepts	12.4.1 and 12.4.2 Students will develop and evaluate inferences to make predictions.	Select and draw conclusions from samples and choose the best model for 2-variable data (10)	2 Weeks	Mid April	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, group practice, data collection activities.
Logarithms and Logarithmic Functions	12.3.3 Students will represent and solve equations and inequalities	Solve, graph and apply logarithmic functions (8)	2 Weeks	Late April	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review

Solving Exponential Growth and Logarithmic Equations	12.3.3 Students will represent and solve equations and inequalities	Apply and graph exponential growth and decay functions (11)	1 Week	May	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review
Rational Equations and Functions	12.3.3 Students will represent and solve equations and inequalities	Perform operations on rational functions (7)	2 Weeks	Mid-May	classroom	McDougal-Littel Algebra 2 Concepts and Skills	Direct instruction, guided practice, clicker review