

Algebra 2 Curriculum Map

TOPIC & TEXTBOOK SECTIONS	Duration	Month(s)
Unit 0: Expressions, Equations and Inequalities Order of Operations, Evaluating Expressions, Solving 1 Variable Linear Equations, Solving Inequalities, Compound Inequalities, Equations with Absolute Value, Inequalities with Absolute Value	6 wks	Sept/Oct
Unit 1: Linear Functions Parent Functions and Transformations, Cartesian Coordinate System, Graphs of Linear Equations, Slope, Slope-Intercept Form, Point-Slope Form, Standard Form, Systems of Equations	6 wks	Oct/Nov
Unit 2: Operations with Polynomials and Quadratic Functions Multiplying and Factoring Polynomials, Greatest Common Factor, Factoring with GCF, Factoring by Grouping, Characteristics of Quadratic Functions	4 wks	Dec/Jan
Unit 3: Quadratic Equations and Complex Numbers The Discriminant, Solving Quadratic Equations by Factoring, Quadratic Formula and the Square Root Method	4 wks	Jan/Feb
Unit 4: Exponential and Logarithmic Functions Exponential Functions, Exponentiation, Powers and Radicals, Solving Exponential Equations, Logarithms, Properties of Logarithms	4 wks	Feb
Unit 5: Statistics, & Probability Scattered Data, Linear Regression, Line of Best Fit, Quadratic Functions, Point of Symmetry, Simple Probability, Two-Way Frequency Tables, Experimental Probability & Statistics	2 wks	Mar
Unit 6: Polynomial Functions Adding, subtracting, multiplying, dividing polynomials, factoring polynomials, analyzing graphs of polynomial functions	3 wks	Mar/Apr
Unit 7: Rational Functions Rational Functions, Graphs, Asymptotes, Discontinuities, Special Products, Factoring, Long Polynomial Division, Factoring Higher Degree Polynomials	3 wks	Apr/May
Unit 8: Trigonometric Ratios and Functions Periodic Functions, Trigonometric and Circular Functions, Unit Circle, Right Triangle Problems	4 wks	May/Jun