



Course Title: Algebra II Honors

Content Area: Mathematics

Grade Level: 8, 9, 10

Scope and Sequence

Grade Level: 8 - 10

Course Introduction: Algebra II is a continuation of topics from Algebra I, including more complicated equations, non-linear graphing, and algebraic expressions not covered in Algebra I.

Units of Study	Standards	Length of Time	Key Content	Assessment Tools	Scaffolding Strategies (Interventions, Special Education)	Resources & Materials
Systems of Equations	CC.2.2.HS.D.1 CC.2.2.HS.D.7 CC.2.2.HS.D.8 CC.2.2.HS.D.9 CC.2.2.HS.D.10 CC.2.2.HS.C.3 CC.2.2.HS.C.5 CC.2.2.HS.C.6	3 weeks	Solving Systems of 2 var-Graphing Systems of 2 var-Substitution Systems of 2 var-Elimination Systems of 3 variables Word Problems with Systems	- Teacher created assessments (quizzes/tests) - Blackboard	Students are allowed to retest if needed.	- OneNote - Blackboard - Textbook - Kuta Software
Monomial and Polynomial Expressions	CC.2.2.HS.D.1 CC.2.2.HS.D.2 CC.2.2.HS.D.3 CC.2.2.HS.D.4 CC.2.2.HS.D.5	4 weeks	Monomial Exponent Properties Negative Exponents Add, Sub, Mult, and Div Monomials and Polynomials Synthetic Division Factoring	- Teacher created assessments (quizzes/tests) - Blackboard	Students are allowed to retest if needed.	- OneNote - Blackboard - Textbook - Kuta Software
Radical Expressions	CC.2.1.HS.F.1 CC.2.1.HS.F.2 CC.2.1.HS.F.5 CC.2.2.HS.D.1 CC.2.2.HS.D.2	4 weeks	Simplifying Radicals Add, Sub, Mult Radicals Rationalize Denominators Fraction Exponents Radical Equations	- Teacher created assessments (quizzes/tests) - Blackboard	Students are allowed to retest if needed.	- OneNote - Blackboard - Textbook - Kuta Software

Imaginary and Complex Numbers	CC.2.1.HS.F.6 CC.2.2.HS.D.1 CC.2.2.HS.D.2 CC.2.2.HS.D.5	3 weeks	Simplifying Imaginary Numbers Expressions with Complex Nums Add, Sub, and Mult Imaginary and Complex Numbers Rationalize Imaginary and Complex Denominators	- Teacher created assessments (quizzes/tests) - Blackboard	Students are allowed to retest if needed.	- OneNote - Blackboard - Textbook - Kuta Software
Quadratic Equations	CC.2.1.HS.F.5 CC.2.1.HS.F.6 CC.2.1.HS.F.7 CC.2.2.HS.D.3 CC.2.2.HS.D.4 CC.2.2.HS.D.5 CC.2.2.HS.D.7 CC.2.2.HS.D.8 CC.2.2.HS.D.9 CC.2.2.HS.D.10 CC.2.2.HS.C.2 CC.2.2.HS.C.3 CC.2.2.HS.C.5 CC.2.2.HS.C.6	4 weeks	Solve Quad Eq by Factoring Solve Quad Eq by Completing the Square Solve Quad Eq by Quadratic Formula The Discriminant Real and Complex Solutions Graphing Quadratic Functions Word Problems	- Teacher created assessments (quizzes/tests) - Blackboard	Students are allowed to retest if needed.	- OneNote - Blackboard - Textbook - Kuta Software
Polynomial Functions	CC.2.1.HS.F.3 CC.2.1.HS.F.6 CC.2.1.HS.F.7 CC.2.2.HS.D.3 CC.2.2.HS.D.4 CC.2.2.HS.D.5 CC.2.2.HS.D.7 CC.2.2.HS.D.9 CC.2.2.HS.D.10 CC.2.2.HS.C.1 CC.2.2.HS.C.2 CC.2.2.HS.C.3 CC.2.2.HS.C.4	4 weeks	Polynomial Degree Roots, Zeros, x-Intercepts Factoring/Factor Theorem Complex Roots Descartes Rule of Signs Location Principle Graphing Polynomial Functions Composition of Functions Inverse Functions	- Teacher created assessments (quizzes/tests) - Blackboard	Students are allowed to retest if needed.	- OneNote - Blackboard - Textbook - Kuta Software

Rational Expressions	CC.2.2.HS.D.1 CC.2.2.HS.D.2 CC.2.2.HS.D.3 CC.2.2.HS.D.4 CC.2.2.HS.D.5 CC.2.2.HS.D.6	3 weeks	Restricted Values Simplifying Rational Expressions Mult and Div Rational Expressions Common Denominators Add, Sub Rational Expressions	- Teacher created assessments (quizzes/tests) - Blackboard	Students are allowed to retest if needed.	- OneNote - Blackboard - Textbook - Kuta Software
Conic Sections	CC.2.2.HS.D.3 CC.2.2.HS.D.4 CC.2.2.HS.D.5 CC.2.2.HS.D.7 CC.2.2.HS.D.8 CC.2.2.HS.D.9 CC.2.2.HS.D.10 CC.2.3.HS.A.10	4 weeks	Distance and Midpoint Formulas Circle Equations and Graphs Parabola Equations and Graphs Ellipse Equations and Graphs Hyperbola Equations and Graphs	- Teacher created assessments (quizzes/tests) - Blackboard	Students are allowed to retest if needed.	- OneNote - Blackboard - Textbook - Kuta Software