Course Name/Number: Honors Algebra II
Grade Level: Sophomore/Junior

Curriculum Map

Unit	Essential Questions	Standards & Skills	Common Assessments	Learning Activities	Resources/Technology	Unit Reflection
Name: Quadratic Functions **Quarter:** 1/2 **Length (Days):** 17	1. Graph Quadratic Functions 2. Factor quadratic expressions 3. Solve quadratic equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex solutions 6. Perform operations with complex umbers 7. Solve quadratic equations by completing the square 8. Solve quadratic equations using the quadratic formula 9. Use the discriminant to determine the nature of the solutions to a quadratic equation 10. Graph inequalities in two variables	**CCSS:** N-CN.1 N-CN.2 N-CN.3 N-CN.7 N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7 N-CN.6 **MP1** **MP2** **MP4** **MP5** **MP6** MP7 MP8	**Formative:** **Homework:** pp. 253, 254; 21-49 eoo pp. 253, 254; 23-47eoo pp. 253, 254; 20-48 eoe pp. 260, 261; 23-79 eoo pp. 260, 261; 25-77 eoo pp. 267, 268; 19-67 eoo pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 ev p. 278, 71-79 odds p. 278, 72-78 evens pp. 286, 287; 23-61 o pp. 286, 287; 24-62 e pp. 295, 296; 17-67 o pp. 303, 304;17-41 eoo pp. 303, 304; 19-43 eoo Chapter 5 Review Packet **Summative:** Chapter 5 Test	Group work, Lecture, Teach-model-try, individual instruction as needed	Star Board, graphing calculators, Geometer's Sketchpad Software, note outlines, text book, and related handouts	This unit introduces to graphs of equations that are not linear. It also reintroduces and extends concepts that were introduced in Algebra I.
Name: Polynomials and Polynomial Functons **Quarter:** 2 **Length (Days):** 23	1. Use properties of exponents to evaluate and simplify expressions involving powers. 2. Evaluate a polynomial function. 3. Graph a polynomial function. 4. Add, subtract, and multiply polynomials. 5. Factor Polynomial Expressions	**CCSS:** A-SSE.1 A-SSE.2.a A-SSE.3.b A-APR.1 A-APR.2 A-APR.4 A-APR.5 A-APR.6 A-APR.7 A-REI.4 A-REI.10 F-IF.7.a F-IF.7.c	**Formative:** **Homework:** p. 326; 17-47 odds p. 326; 16-46 evens pp. 333, 334; 15-45 eoo pp. 333, 334; 17-63 eoo pp. 341, 342; 13-61 eoo pp.348, 349; 19-83 eoo pp. 348, 349; 21-85 eoo pp. 348, 349; 18-82 eoe p. 356; 15-25 odds p. 356; 16-26 evens pp. 356, 357; 27-53 eoo pp. 356, 357; 29-51 eoo	Group work, Lecture, Teach-model-try, individual instruction as needed	Star Board, graphing calculators, Geometer's Sketchpad Software, note outlines, text book, and related handouts	This unit covers standards from a wide variety of areas related to Algebra II. It introduces many concepts that will be expanded upon in later units.

	6. Use factoring to solve polynomial equations. 7. Divide polynomials and apply the remainder and factor theorems. 8. Find the rational zeroes of a polynomial function. 9. Use the fundamental theorem of Algebra to determine the number of zeroes of a polynomial function.	F-IF.8.a **MP1** **MP2** **MP4** **MP5** **MP6** **MP7** **MP8**	pp. 356, 357; 28-52 eoe Chapter 6 Review Packet **Summative:** Chapter 6 Test Factoring Alternative Assessment			