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: Powers, Roots and Radicals **Quarter:** 3 **Length (Days):** 25	1. Evaluate nth roots of real numbers. 2. Use properties of rational exponents to evaluate and simplify expressions. 3. Perform operations with functions including power functions. 4. Find inverses of linear and nonlinear functions. 5. Graph square root and cube root functions. 6. Solve equations that contain radicals or rational exponents. 7. Use measures of central tendency and measures of dispersion to describe data sets. 8. Use box-and-whisker plots and histograms to represent data graphically.	**CCSS:** N-RN.1 N-RN.2 A-SSE.2 A-REI.10 F-IF.1 F-IF.2 F-IF.4 F-IF.5 F-IF.7.b F-BF.1.b F-BF.4.a F-BF.4.b F-BF.4.c S-ID.1 S-ID.2 S-ID.5 A-SSE.3.C F-IF.8.B **MP1** **MP2** **MP4** **MP5** **MP6** MP7 MP8	**Formative:** **Homework:** pp. 404, 405; 13-61 eoo pp. 404, 405; 15-59 eoo pp. 404, 405; 14-58 eoe pp. 411, 412; 23-79 eoo pp. 411, 412; 25-81 eoo pp. 418, 419; 13-49 eoo pp. 418, 419; 15-51 eoo pp. 418, 419; 14-50 eoe pp. 426, 427; 15-55 eoo pp. 426, 427; 17-53 eoo pp. 434, 435; 15-45 odds pp. 434, 435; 16-44 evens pp. 441, 442; 17-61 eoo pp. 441, 442; 19-59 eoo pp. 449, 450; 11-31 odds pp. 449, 450; 12-32 evens **Summative:** Chapter 7 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 serves as an introduction to rational exponents, graphing functions that contain rational exponents, and the concept of shifting graphs.
Name: Exponential and Logarithmic Functions **Quarter:** 3 **Length (Days):** 24	1. Graph exponential growth functions. 2. Graph exponential decay functions. 3. Use the number e as the base of exponential functions. 4. Evaluate logarithmic functions. 5. Graph logarithmic functions.	**CCSS:** F-IF.1 F-IF.2 F-IF.4 F-IF.5 F-IF.7.d F-IF.7.e F-BF.1.b F-BF.4.a F-BF.4.b F-BF.4.c F-F-BF.5	**Formative:** **Homework:** pp. 469, 470; 13-41 eoo pp. 469, 470; 15-39 eoo pp. 477, 478; 11-41 odds pp. 477, 478; 12-42 evens pp. 483, 484; 17-65 eoo pp. 490, 491; 17-73 eoo pp. 490, 491; 19-75 eoo pp. 496, 497; 15-71 eoo pp. 496, 497; 16-72 eoe pp. 505, 506; 19-59 odds	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 serves as an introduction to exponential growth, exponential decay, and logarithmic functions. The concepts related to shifts and graphing are applied in this unit.

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6. Use properties of logarithms. 7. Solve exponential equations.	F-LE.4 F-IF.8.b F-BF.3 **MP1** **MP2** **MP4** **MP5** **MP6** MP7 MP8	pp. 505, 506; 20-60 evens **Summative:** Chapter 8 Alt Assessment			

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