

Planned Course: Honors Algebra II Unit: Exponential Functions Estimated Time: 20 days		Course Number: M305H Grade Level: 8-12 Level/Track: Honors		Department: Mathematics Date Approved: 08/21/01			
Academic Standards		Skills/Knowledge		Activities		Assessment	
<p>2.1.11 Numbers, Number Systems and Number Relationships</p> <p>A. Use operations (e.g., opposite, reciprocal, absolute value, raising to a power, finding roots, finding logarithms).</p> <p>2.1.8 Numbers, Number Systems and Number Relationships</p> <p>E. Simplify and expand algebraic expressions using exponential forms.</p>		<p>The student will be able to use properties of exponents to evaluate and simplify exponential expressions.</p>		<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 		<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Unit test 	
<p>2.5.11 Mathematical Problem Solving and Communication</p> <p>A. Select and use appropriate mathematical concepts and techniques from different areas of mathematics and apply them to solving non-routine and multi-step problems.</p>		<p>The student will be able to develop real life models that contain variables raised to a power.</p> <p>The student will be able to use the compound interest formula and the exponential growth and decay formulas.</p>		<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 		<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Unit test 	

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<p>2.1.8 Numbers, Number Systems and Number Relationships</p> <p>E. Simplify and expand algebraic expressions using exponential forms.</p> <p>2.1.11 Numbers, Number Systems and Number Relationships</p> <p>A. Use operations (e.g., opposite, reciprocal, absolute value, raising to a power and finding roots, finding logarithms).</p>	<p>The student will be able to evaluate nth roots of real numbers using radical notation and rational exponent notation.</p> <p>The student will be able to use properties of roots to evaluate and simplify expressions containing radicals and rational exponents.</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Unit test
<p>2.8.8 Algebra and Functions</p> <p>E. Select and use a strategy to solve an equation or inequality, explain the solution and check the solution for accuracy.</p> <p>2.8.11 Algebra and Functions</p>	<p>The student will be able to solve equations that have radicals and rational exponents.</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Unit test

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N. Solve linear, quadratic and exponential equations both symbolically and graphically.			
2.8.11 Algebra and Functions J. Demonstrate the connection between algebraic equations and inequalities and the geometry of relations in the coordinate plane. Q. Represent functional relationships in tables, charts and graphs.	The student will be able to graph square root and cube root functions.	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Unit test