

Planned Course: Honors Algebra II	Course Number: M305H	Department: Mathematics	
Unit: Log Functions	Grade Level: 8-12		
Estimated Time: 23 days	Level/Track: Honors	Date Approved: 08/21/01	
Academic Standards	Skills/Knowledge	Activities	Assessment

<p>2.8.11 Algebra and Functions</p> <p>Q. Represent functional relationships in tables, charts and graphs.</p> <p>S. Analyze properties and relationships of functions (e.g., linear, polynomial, rational, trigonometric, exponential and logarithmic).</p>	<p>The student will be able to graph exponential functions and evaluate.</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 • Quizzes • Graded homework • Graded class work • Unit test
<p>2.8.11 Algebra and Functions</p> <p>R. Create and interpret functional models.</p>	<p>The student will be able to use exponential functions as models for real-life situations.</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 • Quizzes • Graded homework • Graded class work • Unit test
<p>2.8.11 Algebra and Functions</p> <p>Q. Represent functional relationships in tables, charts and graphs.</p> <p>S. Analyze properties and relationships of functions</p>	<p>The student will be able to evaluate logarithmic expressions and graph logarithmic functions.</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 • Quizzes • Graded homework • Graded class work • Unit test

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(e.g., linear, polynomial, rational, trigonometric, exponential and logarithmic).			
<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>2.8.11 Algebra and Functions</p> <p>S. Analyze properties and relationships of functions (e.g., linear, polynomial, rational, trigonometric, exponential and logarithmic).</p>	The student will be able to use properties of logarithms.	<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 • Quizzes • Graded homework • Graded class work • Unit test
<p>2.8.11 Algebra and Functions</p> <p>P. Analyze a relation to determine whether a direct or inverse variation exists and represent it</p>	The student will be able to identify inverse relations and inverse functions.	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book 	<ul style="list-style-type: none"> • Classroom observation • Quizzes • Graded homework

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algebraically and graphically.		<ul style="list-style-type: none"> • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Graded class work • Unit test
2.8.11 Algebra and Functions S. Analyze properties and relationships of functions (e.g., linear, polynomial, rational, trigonometric, exponential and logarithmic).	The student will be able to use the number “e” as the base of an exponential function.	<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 • Quizzes • Graded homework • Graded class work • Unit test
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. S. Analyze properties and relationships of functions (e.g., linear, polynomial, rational, trigonometric, exponential and logarithmic).	The student will be able to evaluate natural logarithmic expressions and graph natural logarithmic 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 • Quizzes • Graded homework • Graded class work • Unit test

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<p>2.1.8 Numbers, Number Systems and Number Relationships</p> <p>G. Use the inverse relationships between addition, subtraction, multiplication, division, exponentiation and root extraction to determine unknown quantities in equations.</p> <p>2.8.11 Algebra and Functions</p> <p>N. Solve linear, quadratic and exponential equations both symbolically and graphically.</p>	<p>The student will be able to solve exponential and logarithmic equations.</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 • Quizzes • Graded homework • Graded class work • 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 graph a logistics growth functions.</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 • Quizzes • Graded homework • Graded class work • Unit test

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2.8.11 Algebra and Functions			
N. Solve linear, quadratic and exponential equations both symbolically and graphically.			