

Planned Course: Honors Algebra II	Course Number: M305H	Department: Mathematics	
Unit: Linear Equations	Grade Level: 8-12	Date Approved: 08/21/01	
Estimated Time: 18 days	Level/Track: Honors		
Academic Standards	Skills/Knowledge	Activities	Assessment

<p>2.6.11 Statistics and Data Analysis</p> <p>F. Determine the degree of dependence of two quantities specified by a two-way table.</p> <p>2.8.8 Algebra and Functions</p> <p>G. Represent relationships with tables or graphs in the coordinate plane and verbal or symbolic rules.</p> <p>H. Graph a linear function from a rule or table.</p> <p>2.2.11 Computation and Estimation</p> <p>F. Demonstrate skills for using computer spreadsheets and scientific and graphing calculators.</p>	<p>The student will be able to graph linear equations using a table.</p> <p>The student will be able to find the slope of a line and identify parallel and perpendicular lines.</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator exercises 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Test
<p>2.8.11 Algebra and Functions</p> <p>K. Select, justify and apply an appropriate technique to graph a linear function in</p>	<p>The student will be able to use intercepts and the slope-intercept form to graph a line</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in book 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work

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two variables, including slope-intercept, x-and y-intercepts, graphing by transformations and the use of a graphing calculator.	quickly.	<ul style="list-style-type: none"> • Worksheets • Graphing calculator exercises 	<ul style="list-style-type: none"> • Quizzes • Test
<p>2.8.11 Algebra and Functions</p> <p>L. Write the equation of a line when given the graph of the line, two points on the line or the slope of the line and a point on the line.</p> <p>2.2.11 Computation and Estimation</p> <p>C. Construct and apply mathematical models, including lines and curves of best fit, to estimate values of related quantities.</p>	The student will be able to write equations of lines and use them to solve real-life problems.	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator exercises 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Test