

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

<p>2.8.11 Algebra and Functions</p> <p>G. Analyze and explain systems of equations, systems of inequalities, and matrices.</p> <p>2.8.11 Algebra and Functions</p> <p>H. Select and use an appropriate strategy to solve systems of equations and inequalities using graphing calculators, symbol manipulators, spreadsheets and other software.</p>	<p>The student will be able to graph and solve a system of linear equations and use them to answer questions about real-life situations.</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Test
<p>2.5.11 Mathematical Problem Solving and Communication</p> <p>B. Use symbols, mathematical terminology, standard notation, mathematical rules, graphing and other types of mathematical representations to communicate observations, predications, concepts, procedures, generalizations, ideas and</p>	<p>The student will be able to use algebraic methods to solve a linear system.</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Test

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<p>results.</p> <p>C. Present mathematical procedures and results clearly, systematically, succinctly and correctly.</p>			
<p>2.8.11 Algebra and Functions</p> <p>D. Formulate expressions, equations, inequalities, systems of equations, system of inequalities and matrices to model routine and non-routine problem situations.</p>	<p>The student will be able to write and use linear systems to model real-life situations.</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Test
<p>2.8.11 Algebra and Functions</p> <p>D. Formulate expressions, equations, inequalities, systems of equations, system of inequalities, and matrices to model routine and non-routine problem situations.</p> <p>F. Identify whether systems of equations and inequalities are consistent or inconsistent.</p>	<p>The student will be able to solve a system of linear equations in three variables.</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Test

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I. Analyze and explain systems of equations, systems of inequalities and matrices.			
2.8.11 Algebra and Functions A. Analyze a given set of data for the existence of a pattern and represent the pattern algebraically and graphically. 2.8.11 Algebra and Functions E. Use equations to represent curves (e.g., lines, circles, ellipses, parabolas, hyperbolas). 2.8.11 Algebra and Functions R. Create and interpret functional models.	The student will be able to solve a linear programming problem. The student will be able to use linear programming to answer questions about real-life situations.	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Test