

Planned Course: Honors Algebra II Unit: Special Products &, Factoring Estimated Time: 18 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>2.5.11 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>2.8.11 Algebra and Functions</p> <p>A. Analyze a given set of data for the existence of a pattern and represent the pattern algebraically and graphically.</p>		<p>The student will be able to factor polynomial expressions and equations.</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 • 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 use factoring to solve real life problems.</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 • Unit test 	

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<p>2.8.11 Algebra and Functions</p> <p>A. Analyze a given set of data for the existence of a pattern and represent the pattern algebraically and graphically.</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>2.5.11 Mathematical Problem Solving and Communication</p> <p>C. Present mathematical procedures and results clearly, systematically, succinctly and correctly.</p>	<p>The student will be able to divide polynomials using long division and synthetic division.</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 • Unit test
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<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>2.5.11 Mathematical Problem Solving and Communication</p> <p>C. Present mathematical procedures and results clearly, systematically, succinctly and correctly.</p>	<p>The student will be able to relate the quotient from dividing polynomials to the remainder theorem and the factor theorem.</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 • Unit test
<p>2.8.11 Algebra and Functions</p> <p>Q. Represent functional relationships in tables, charts and graphs.</p> <p>R. Create and interpret functional models.</p> <p>O. Determine the domain and range of a relation, given graph or set of ordered pairs.</p> <p>T. Analyze and categorize</p>	<p>The student will be able to identify a relationship between two variables as a relation or a function.</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 • Unit test

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functions by their characteristics.					