

Planned Course: Honors Algebra II Unit: Sequences and Series Estimated Time: 5 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>2.8.11 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>C. Use patterns, sequences and series to solve routine and non-routine problems.</p> <p>2.11.11 Concepts of Calculus</p> <p>D. Determine sums of finite sequences of numbers and infinite geometric series.</p>	<p>The student will be able to write and use sequences and series.</p> <p>The student will be able to use sequences and series as models of real-life situations.</p>	<ul style="list-style-type: none"> <li>• Overhead transparencies</li> <li>• Chalkboard examples</li> <li>• Exercises in the book</li> <li>• Worksheets</li> <li>• Graphing calculator</li> </ul>	<ul style="list-style-type: none"> <li>• Classroom observation</li> <li>• Quizzes</li> <li>• Graded homework</li> <li>• Graded class work</li> <li>• Unit test</li> </ul>		
<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>C. Use patterns, sequences and series to solve routine and non-routine problems.</p>	<p>The student will be able to find the <math>n</math>th term or the sum of an arithmetic series.</p> <p>The student will be able to use arithmetic sequences in real-life problems.</p>	<ul style="list-style-type: none"> <li>• Overhead transparencies</li> <li>• Chalkboard examples</li> <li>• Exercises in the book</li> <li>• Worksheets</li> <li>• Graphing calculator</li> </ul>	<ul style="list-style-type: none"> <li>• Classroom observation</li> <li>• Quizzes</li> <li>• Graded homework</li> <li>• Graded class work</li> <li>• Unit test</li> </ul>		
2.8.12 Algebra and Functions					

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<p>2.8.13 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>C. Use patterns, sequences and series to solve routine and non-routine problems.</p>		<p>The student will be able to use the Binomial theorem to expand a binomial that is raised to a power.</p> <p>The student will be able to use Pascal's Triangle to find binomial coefficients.</p> <p>The student will be able to use the Binomial Theorem in real-life situations.</p>		<ul style="list-style-type: none"> <li>• Overhead transparencies</li> <li>• Chalkboard examples</li> <li>• Exercises in the book</li> <li>• Worksheets</li> <li>• Graphing calculator</li> </ul> <ul style="list-style-type: none"> <li>• Classroom observation</li> <li>• Quizzes</li> <li>• Graded homework</li> <li>• Graded class work</li> <li>• Unit test</li> </ul>	

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