



Content: MATHEMATICS – Advanced Alg II								
Topic: Unit 12–Sequences and Series 3½ days								
Content (What do your students need to KNOW?)	Demonstrators (What do your students need to be able to DO?)	Assessment (How will you assess what your students ALREADY KNOW, and assess WHAT THEY’VE LEARNED?)	Activities (HOW will you teach it?)	Resources (What MATERIALS will you need?)	Differentiation (How will you reach the DIVERSITY of learners?)	Literacy Connection (How will you use READING and WRITING with this material?)		
<p>MA-H-1.1.2 Students will recognize, define, give examples of, and apply to both real-world and mathematical situations finite arithmetic and geometric sequences and series.</p> <p>MA-H-1.2.4 Students will determine a specific term of a sequence given an explicit formula and write an explicit rule for the nth term of arithmetic and geometric sequences.</p>	<table border="1"> <tr> <td> <p>Academic Expectations 1.5 - 1.9 Students use mathematical ideas and procedures to communicate, reason, and solve problems.</p> <p>2.7 Students understand number concepts and use numbers appropriately and accurately.</p> </td> <td> <p>Program of Studies M-H-A-14 Students will see the patterns in arithmetic sequences and geometric sequences using recursion (formulas expressing each term as a function of one or more of the previous terms).</p> </td> </tr> </table>	<p>Academic Expectations 1.5 - 1.9 Students use mathematical ideas and procedures to communicate, reason, and solve problems.</p> <p>2.7 Students understand number concepts and use numbers appropriately and accurately.</p>	<p>Program of Studies M-H-A-14 Students will see the patterns in arithmetic sequences and geometric sequences using recursion (formulas expressing each term as a function of one or more of the previous terms).</p>			<p>Extend with Pascal’s Triangle and the Binomial Theorem</p>		
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