



Recommended Advanced Geometry Curriculum Framework

<b>Content: MATHEMATICS – ADVANCED GEOMETRY</b>						
<b>Topic: Unit 6 Lines and Planes in Space 2 days</b>						
<b>Content</b> (What do your students need to KNOW?)	<b>Demonstrators</b> (What do your students need to be able to DO?)	<b>Assessment</b> (How will you assess what your students ALREADY KNOW, and assess WHAT THEY’VE LEARNED?)	<b>Activities</b> (HOW will you teach it?)	<b>Resources</b> (What MATERIALS will you need?)	<b>Differentiation</b> (How will you reach the DIVERSITY of learners?)	<b>Literacy Connection</b> (How will you use READING and WRITING with this material?)
<p><b>MA-H-2.2.2</b> Students will classify two-dimensional and three-dimensional geometric figures according to their characteristics such as lengths of sides; angle measures; and number of sides, faces, edges, and vertices. Students will describe the intersection of a plane with a three-dimensional geometric figure.</p> <p><b>MA-H-2.2.3</b> Students will determine height and distance using methods of indirect measurement such as similar triangles (including shadow or mirror method) and right triangle relationships (including trigonometric ratios).</p>	<p><b>Academic Expectations</b>  <b>1.5 - 1.9</b> Students use mathematical ideas and procedures to communicate, reason, and solve problems.  <b>2.9</b> Students understand space and dimensionality concepts and use them appropriately and accurately.  <b>2.8</b> Students understand various mathematical procedures and use them appropriately and accurately.  <b>2.10</b> Students understand measurement concepts and use measurements appropriately and accurately.</p> <p><b>Program of Studies</b>  <b>M-H-G-3</b> Students will find the intersection of lines, planes, and solids.  <b>M-H-G-12</b> Students will use properties of circles, arcs, chords, central angles, inscribed angles, and concentric circles.  <b>M-H-G-11</b> Students will use properties of other polygons.  <b>M-H-G-10</b> Students will use</p>			Page 286 #8		

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	properties of quadrilaterals such as classification. <b>M-H-G-6</b> Students will describe, draw, and construct two-dimensional and three-dimensional figures. <b>M-H-G-15</b> Students will use proportional reasoning to solve real-world problems, to do indirect measurements, and to make scale drawings.					