

<b>Planned Course: Honors Geometry</b>		<b>Course Number: M307H</b>		<b>Department: Mathematics</b>	
<b>Unit: Surface Area and Volume</b>		<b>Grade Level: 9-12</b>		<b>Date Approved: 7/15/09</b>	
<b>Estimated Time: 18 days</b>		<b>Level/Track: Honors</b>			
<b>PA Academic Standards</b>	<b>Core Concepts (in question format)</b> • Skills/Knowledge	<b>Activities/Strategies/Study Skills</b> (identify some activities as remedial or enrichment activities)	<b>Assessments</b> (include types and topics)		

<p><b>ASSESSMENT ANCHORS</b>  M11.B.2.2 Use and/or develop procedures to determine or describe measures of perimeter, circumference, area, surface area, and/or volume. (May require conversions within the same system.)  M11.C.1.3 Use properties of congruence, correspondence and similarity in problem-solving settings involving two- and three-dimensional figures.</p>	<p>▶ How do you find the surface area and volume of various geometric solids?  • Student will be able to apply formulas to find the surface area and/or volume of pyramids, cones, prisms, cylinders, and spheres.</p> <p>▶ How do volumes of similar solids compare?  • Student will be able to describe the change in volume of similar solids.</p>	<p>▶ The student will draw two dimensional representations of three dimensional figures.  ▶ The student will examine formulas to find surface areas and volumes of solids.  ▶ The student will analyze diagrams to determine which formulas to use to solve problems.  ▶ The student will find the volume of similar solids to recognize how the change in dimension affects the volume.</p>	<p>▶ Graded assignments</p> <p>▶ Classroom observation and/or participation</p> <p>▶ Quiz</p> <p>▶ Test</p>		
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