

Planned Course: Geometry		Course Number: 302/303		Department: Mathematics	
Unit:		Grade Level:		Date Approved: 7/15/2008	
Estimated Time:		Level/Track:			
PA Academic Standards	Core Concepts (in question format) • Skills/Knowledge	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)		

<p>2.9.11.A Construct geometric figures using dynamic geometry tools (e.g., Geometer's Sketchpad, Cabri)</p> <p>2.9.8.E. Identify, name, draw and list all properties of squares, cubes, pyramids, parallelograms, quadrilaterals, trapezoids, polygons, rectangles, rhombi, circles, spheres, triangles, prisms and cylinders.</p> <p>2.9.11.B Prove that two triangles or two polygons are congruent or similar using algebraic, coordinate and deductive proofs.</p> <p>2.9.11.C Identify and prove the properties of quadrilaterals involving opposite sides and angles, consecutive sides and angles and diagonals using deductive proofs.</p>	<p>▶ 12. How will students find area, perimeter, volume, and surface area of spheres, prisms, and platonic solids?</p> <p>▶ 12A. The students will be able to find the perimeter and area of a figure.</p> <p>▶ 12B. The students will be able to find the perimeter of a polygon.</p> <p>▶ 12C. The students will be able to find the area of:</p> <ul style="list-style-type: none"> ▶ Rectangles, Squares, and Parallelograms ▶ Triangles ▶ Trapezoids and other quadrilaterals ▶ Regular polygons ▶ Circles and sectors ▶ Similar polygons <p>▶ 12D. The students will be able to use perimeter and area to solve real-life problems.</p> <p>▶ 12E. The students will</p>	<p>▶ Overhead transparencies</p> <p>▶ Chalkboard Examples</p> <p>▶ PowerPoint Examples</p> <p>▶ Textbook Exercises</p> <p>▶ Paper Folding</p> <p>▶ Worksheets</p> <p>▶ Geometer's Sketchpad</p> <p>▶ Cooperative Group Work</p> <p>▶ Manipulatives (Set, T-square, and miter box)</p>	<p>▶ Graded homework</p> <p>▶ Classroom observation</p> <p>▶ Online Quiz/Test</p> <p>▶ In Class Quiz/Test</p>
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	<p>be able to find the surface area and volume of:</p> <ul style="list-style-type: none"> ▶ prisms and cylinders ▶ pyramids and cones ▶ spheres ▶ similar solids <p>▶ 12F. The students will be able to use surface area and volume to solve real-life problems.</p>				
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