

Planned Course: Geometry		Course Number: 302/303	Department: Mathematics
Unit: Polygons		Grade Level:	
Estimated Time:		Level/Track:	Date Approved: 7/15/2008
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.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>2.4.11.A Use direct proofs, indirect proofs or proof by contradiction to validate conjectures.</p> <p>2.9.11.J Analyze figures in terms of the kinds of symmetries they have.</p> <p>2.9.11.A Construct geometric figures using dynamic geometry tools (e.g., Geometer's Sketchpad,</p>	<p>▶ 7. What are polygons and how can specific properties help identify special polygons?</p> <p>▶ 7A. The students will be able to identify types of polygons.</p> <p>▶ 7B. The students will be able to find the measures of the interior and exterior angles of a polygon.</p> <p>▶ 7C. The students will be able to use the properties of parallelograms.</p> <p>▶ 7D. The students will be able to prove that a quadrilateral is a parallelogram.</p> <p>▶ 7E. The students will be able to identify special parallelograms.</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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Cabri	<ul style="list-style-type: none"> ▶ 7F. The students will be to identify isosceles and non-isosceles trapezoids and determine the length of a midsegment. 				
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