

<b>Planned Course: Geometry</b>		<b>Course Number: 302/303</b>		<b>Department: Mathematics</b>	
<b>Unit:</b>		<b>Grade Level:</b>		<b>Date Approved: 7/15/2008</b>	
<b>Estimated Time:</b>		<b>Level/Track:</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>Standards:</p> <p>2.9.11.E Solve problems involving inscribed and circumscribed polygons.</p> <p>2.9.11.F Use the properties of angles, arcs, chords, tangents and secants to solve problems involving circles.</p> <p>2.8.11.D Formulate expressions, equations, inequalities, systems of equations, systems of inequalities and matrices to model routine and non-routine problem situations.</p> <p>2.3.11.A Select and use appropriate units and tools to measure to the degree of accuracy required in particular measurement situations.</p>	<p>▶ 11. How will the students use the properties of circles to identify different segments and angles?</p> <p>▶ 11A. The students will be able to identify parts of circles.</p> <p>▶ 11B. The students will be able to use the properties of tangents.</p> <p>▶ 11C. The students will be able to measure central angles and arcs.</p> <p>▶ 11D. The students will be able to use the properties of chords and arcs.</p> <p>▶ 11E. The students will be able to use the properties of inscribed angles and their intercepted arcs.</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>2.5.11.A Select and use appropriate mathematical concepts and techniques from different areas of mathematics and apply them to solving non-routine and multi-step problems.</p> <p>2.5.11.B Use symbols, mathematical terminology, standard notation, mathematical rules, graphing and other types of mathematical representations to communicate observations, predictions, concepts, procedures, generalizations, ideas and results.</p> <p>2.5.11.C Present mathematical procedures and results clearly, systematically, succinctly and correctly.</p>	<p>▶ 11F. The students will be able to measure angles formed by tangents, chords, and secants</p> <p>▶ 11G. The students will be able to use the properties of circles to solve real-life problems.</p> <p>▶ 11H. The students will be able to find the circumference and area of a circle and the length of an arc.</p>				
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