

Work Sample Title

Your name:

Lesson Title	All About Angles: A Lesson Using Geometer's Sketchpad	
Date of Lesson	2/21/06, 2/22/06, 2/23/06	
Topic	Using Geometers Sketchpad to study the properties of angles and triangles	
Grade Level	Pre-Algebra, Grades 6-8	
Lesson Length	120 min	
Purpose of Lesson	The students become familiar with Geometers Sketchpad as a tool for examining properties of angles and triangles while coming to agreement on properties of angles formed by intersecting lines in the Euclidean plane.	
Lesson Objectives	<p>The students will be able to...</p> <ul style="list-style-type: none"> • Use Geometers Sketchpad to analyze geometric properties of angles, triangles, parallel, and intersecting lines • Identify complimentary, supplementary, corresponding, alternate interior, and alternate exterior angles appropriately • Solve for unknown angles using triangles, intersecting lines, and given angles in a linear system 	
Corresponding Standards	National Standards	State Standards
	<p>Grades 6-8</p> <p>Geometry</p> <ul style="list-style-type: none"> • Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships <p>Connections</p> <ul style="list-style-type: none"> • Recognize and use connections among mathematical ideas <p>Representation</p> <ul style="list-style-type: none"> • Create and 	<p>Grade 8</p> <p>Geometry-Properties and Relationships</p> <ul style="list-style-type: none"> • Investigate triangles and their component parts and draw conclusions about their properties • Determine defining properties that characterize classes of triangles including side and angle measurements and their component parts

