Unit 1 Intro to Geometry			
Title: Unit 1	Subject/Course: Geometry		
Topic: Geometry Terms Grade: 10-	12 Designer: Anthony Padrnos		
Stage 1- Des	ired Results		
State Math Standards addressed:			
• (9.3.2.1) Understand the roles of axio	ms, definitions, undefined terms and		
theorems in logical arguments	theorems in logical arguments		
• (9.3.2.2) Accurately interpret and use words and phrases such as "ifthen," "if and only if," "all," and "not." Recognize the logical relationships between an "if then" statement and its inverse, converse, and contrapositive			
• (9.3.2.3) Assess the validity of a logic	• (0.2.2.2) Assess the validity of a logical argument and give counterexamples to		
disprove a statement	and give counterexamples to		
<ul> <li>(9.3.2.5) Use technology tools to example of the statement.</li> <li>(9.3.2.5) Use technology tools to example of the statement of the stateme</li></ul>	mine theorems, make and test conjectures, athematical reasoning skills in multi-step apass and straight edge, dynamic geometry applets.		
Creativity and Innovation			
<ul> <li>Student will use technology on a variety of activities to creatively create</li> </ul>			
understanding of material.			
Communication and Collaboration			
• Students will collaborate, usin	ng technology (wikis & glossary) to create a		
product.			
• Critical Ininking, Problem Solving, a	and Decision Making		
through the use of GeoGebra	Wiki's and Assessments		
Tachnology Operations and Concents	wiki s, and Assessments.		
• Student will operate technolog	y to demonstrate geometric concepts		
through digital presentations. GeoGebra and digital imaging			
Unit Understandings:	Unit (Topical) Essential Questions:		
Students will understand that	• What are the essential words for		
• Basic geometry vocabulary is	geometry?		
important for the foundation of	• What tools are used in geometry?		
Euclidean geometry.			
• Geometry terms are related to each			
other.			
• Point, Line, & Plane are the			
building blocks of all Euclidean			
geometry.			
Students will know	Students will be able to		
• All essential vocabulary for	• recognize different types of		
Euclidian geometry	polygons		

• How to decode "if...then"

statements

measure angles with a protractor
identify different parts of a circle

## Unit 1 Intro to Co

Essential new vocabulary	• Sketch images of essential
•	vocabulary
	Common misconceptions students bring to
	the unit

Stage 2 – Assessment Evidence	
Formative assessments <ul> <li>vocabulary quiz</li> <li>warm-ups</li> <li>homework</li> </ul>	Informal assessment tasks <ul> <li>think-pair share</li> <li>group work</li> </ul>
<ul> <li>activ-vote</li> <li>Summative assessments</li> <li>50 point multiple choice/ constructed response test</li> </ul>	

Stage 3 – Learning Plan	
Learning Activities	
Students will	
• <b>[0.1/0.2] Intro, paper folding, symmetry</b> (9.3.2.1)	
<ul> <li>paper folding activity</li> </ul>	
• <b>[0.3/0.4] Tools &amp; design</b> (9.3.2.1)	
<ul> <li>protractor worksheet</li> </ul>	
<ul> <li>design worksheet</li> </ul>	
<ul> <li>personal design assignment</li> </ul>	
• [1.1] Building blocks of geometry (9.3.2.1)	
$\circ$ jigsaw activity with glossary	
• [1.2] Pool room math (9.3.2.1)	
<ul> <li>Pool math activity/ worksheet</li> </ul>	
<ul> <li>Angle Applet</li> </ul>	
• [1.3] What's a widget (9.3.2.1), (9.3.2.2), (9.3.2.3)	
• "ifthen" statement worksheet	
o group wiki	
• <b>[1.4] Polygons</b> (9.3.2.1)	
• [1.5] Triangles & quadrilaterals (9.3.2.1)	
○ group wiki	
• <b>[1.6] Circles</b> (9.3.2.1), (9.3.2.5)	
• GSP circle lab	
Differentiation possibilities	
• Daily assignments that are ability based	
• Ability grouping for group/ partner activities	
• Interest assignment with personal geometric design	