UNIT OF STUDY

Title:	Unit 5 Subject/Cou	rse: Geometry Length: 10 days	
Topic: types of segments/properties of triangles/ tessellations/ logic Grade: 10th Designer: Boyd			
UNIT GOALS AND EXPECTATIONS			
IMPOR • •	TANT CONCEPTS/UNDERSTANDINGS: Use the sum of the angles of a triangle to find missing angles Find the parts of a triangle using the 5 types of interior segments Tessellations of regular polygons Draw the side views of figures given the 3- dimensional object	 ESSENTIAL QUESTIONS: What is the sum of the interior angles of a triangle? What are the 5 types of interior segments of a triangle? What is a tessellation? What is a regular polygon? What is a mat view? 	
STUDE •	 NT LEARNING EXPECTATIONS: T.2.G.3 Identify and use the special segments of triangles (altitude, median, angle bisector, perpendicular bisector, and midsegment) to solve problems R.4.G.2 Solve problems using properties of polygons: sum of the measures of the interior angles of a polygon interior and exterior angle measure of a regular polygon or irregular polygon number of sides or angles of a polygon 		
SPECI	 FIC DECLARATIVE KNOWLEDGE – What I know Vocabulary: altitude, median, angle bisector, perpendicular bisector, midsegment, tessellation, regular polygon, logic, matrix Identify altitude, median, angle bisector, perpendicular bisectors, and midsegment 	 SPECIFIC PROCEDURAL KNOWLEDGE – What I need to do Solve problems using properties of altitudes, medians, angle bisectors, perpendicular bisectors, and midsegment Solve problems using triangle inequality theorem Order the sides of a triangle given the angle measurements Order the angles of a triangle given the side lengths Determine the length of the sides of a triangle algebraically Sketch isosceles triangles given the perimeter Sketch the side views of figures given the 3-dimensional object Solve logic problems using matrices 	
UNIT ASSESSMENTS			
(Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy)			
 Open Response Unit 5 question 1 mat view Open Response Unit 5 question 2 logic Open Response Unit 5 question 3 logic Open Response Unit 5 question 4 triangle inequality theorem 			

Traditional Assessments:	Other Evidence of Learning:
Segments of Triangles Quiz (on smart board)	Homework Class work
 Isosceles and Equilateral mangle Quiz 	
ILI module test	
Vocabulary Quiz	

ACTIVITIES AND LEARNING EXPERIENCES	Resources			
Introduce vocabulary using 4-step strategy				
 Students will make mental picture of each type of segment and then describe in their own words 				
• "Slap the board" (Identify interior segments of triangles)	Draw pictures on white board			
Students will use isometric drawings to create faces of a cubic structure	bound			
• Build 3-D images using cubes then draw the different views (in groups)	 Blocks, graph paper Mastery math notebook 			
Practice concepts using mastery math materials				
Use real world information to solve logic problems				
Career Connections				
Architecture, Cardiology Technicians, Air Traffic Controller				