UNIT OF STUDY

Title:	Unit 7 Su	ubject/Course: Geometry	Length: 7 days				
Topic:	Topic: Ratios/Proportions/Pythagorean Theorem Grade:		h Designer: Boyd				
UNIT GOALS AND EXPECTATIONS							
IMPOR STUDE SPECII	 TANT CONCEPTS/UNDERSTANDINGS Use proportions to solve problems Find geometric means Solve problems using Pythagorean The TNT LEARNING EXPECTATIONS: M.3.G.4 Use (given similar geomet proportional reasoning to solve prace problems (including scale drawings) T.2.G.4 Apply the <i>Pythagorean The</i> its converse in solving practical pro FIC DECLARATIVE KNOWLEDGE – WI Vocabulary: ratio, legs, hypotenuse, pr geometric mean, Pythagorean theorem form, scale drawing, cross product, equ Identify properties of similar figures 	S: ESSENTIAL C • What • Use r • Write • Solve • Deter • Solve • Find t • Use s	 ESSENTIAL QUESTIONS: What is a ratio? What is a proportion? What is a geometric mean? What is the Pythagorean Theorem? SPECIFIC PROCEDURAL KNOWLEDGE - What I need to do Use number line to find indicated ratio Write given ratio in simplest form Solve proportions Determine if figures are similar by setting up and solving proportions Use proportions to solve real world problems Find the geometric mean of two numbers Use scale drawings to solve real world problems 				
Traditio	Use Pythagorean theorem to solve word problems and write answers in decimal and radical form UNIT ASSESSMENTS (Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy) Open Response Unit 7 question 1 proportions (election) Open Response Unit 7 question 2 Pythagorean Theorem (horse trail) Traditional Assessments: Simplifying ratios with uncommon units and UNIT ASSESSMENTS UNIT ASSESSMENTS UNIT ASSESSMENTS (Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy) UNIT ASSESSMENTS (Include tasks related to Dimensions 1 and 4 and Bloom's Taxonomy) UNIT ASSESSMENTS (Include tasks related to Dimensions 1 and 4 and Bloom's Taxonomy) UNIT ASSESSMENTS (Include tasks related to Dimensions 2 and 4 and Bloom's Taxonomy) UNIT ASSESSMENTS (Include tasks related to Dimensions 1 and 4 and Bloom's Taxonomy) UNIT ASSESSMENTS (Include tasks related to Dimensions 2 and 4 and Bloom's Taxonomy) UNIT ASSESSMENTS (Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy) UNIT ASSESSMENTS (Include tasks related to Dimensions 2 and 4 and Bloom's Taxonomy) UNIT ASSESSMENTS (Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy)						
• •	solving proportions Quiz Unit 7 Test TLI module test Vocabulary Quiz	• Class	work				

ACTIVITIES AND LEARNING EXPERIENCES	Resources
 Introduce vocabulary using 4-step strategy 	
	 Mastery Math Notebook

•	Review units of time and distance by student questioning				
•	Small group work to solve proportions and decide which information is needed				
•	Model Pythagorean Theorem using pictures and word problems				
Career Connections					
Carper	nter, Aerial Photographer, Chef, Rock Climbing, Architecture				