

Unit Title: Right Triangles & Trigonometry

State Standards: G.GM.1, G.GM.2, G.GSRT.4, G.GSRT.6, G.GSRT.7, G.GSRT.8

All plans are subject to change. Student progress will be monitored and adjustments will be made. **NOTE:CS = Chapter Section. Example CS1.2 is Chapter 1 Section 2 in the textbook.**

	Standards	Goals As a result of this lesson the student will be able to:	Instructional Plan Activities (aligned, sequenced, build, time)	Student Work (Thinking & Problem Solving, Real World)	Assessment (aligned, rubrics, >2, written)	Grouping Method	Materials	Accommodations (IEP, 504, ESOL)
Monday	G.GSRT.4 G.GSRT.5 G.GSRT.2	Prove, and apply in mathematical and real-world contexts, theorems involving similarity about triangles, including: a) A line drawn parallel to one side of a triangle divides the other two sides into parts of equal proportion. b) If a line divides two sides of a triangle proportionally, then it is parallel to the third side. Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures. Demonstrate that two figures are similar by identifying a combination of translations, rotations, reflections, and dilations that various representations that move one figure onto the other.	Chapter 6 Test	Actively complete Chapter 6 Test	Walk room during test completion. Performance on chapter 6 test	Individual	Chapter 6 test calculators	Applies to IEP/504/ESOL Priority seating Retest in resource as appropriate
Tuesday	G.GSRT.6 G.GSRT.6	Prove, and apply in mathematical terms and real-world contexts, theorems involving similarity about triangles, including the following: c) The square of the hypotenuse of a right triangle is equal to the sum of the squares of the other two sides. Understand how the properties of similar right triangles allow the trigonometric ratios to be defined and determine the sine, cosine, and tangent of an acute angle in a right triangle.	Review Chapter 6 Test as appropriate CS7.1 –Apply Pythagorean Theorem CS7.5 – Apply the Tangent Ratio CS7.6 – Apply the Sine and Cosine Ratios	Participate in chapter 6 test review if applicable (no absenteeism). Take notes and participate in lesson problems to reinforce concepts. <ul style="list-style-type: none"> Solve for missing values in triangle using Pythagorean Theorem and Trigonometric Ratios. Complete classwork/homework	Participation in test review Walk room during lesson to ensure proper notetaking Questioning Walk room practice test to assist and answer questions as needed.	Whole class, Individual Small group	Warm up problem Notes for CS 7.1, 7.5, 7.6 Worksheets CS7.5,7.6	Applies to IEP/504/ESOL Priority seating Modeling, pair with appropriate peer
Wednesday	G.GSRT.8	Solve right triangles in applied problems using trigonometric ratios and the Pythagorean Theorem.	Review worksheets CS 7.5 & 7.6 CS7.7 – Solve Right Triangles	Participate in worksheet review Take notes and participate in lesson problems to reinforce concepts. <ul style="list-style-type: none"> Solve for missing values in triangle using Pythagorean Theorem and Trigonometric Ratios. Complete classwork/homework	Participation in worksheet review. Walk room during lesson to ensure proper notetaking Questioning Walk room practice test to assist and answer questions as needed.	Whole class, Individual Small group	Warm up problem Notes for CS 7.7 Worksheets CS7.7	Applies to IEP/504/ESOL Priority seating Modeling, pair with appropriate peer

Thursday	<p>.GSRT.6</p> <p>G.GSRT.6</p> <p>G.GSRT.8</p>	<p>Prove, and apply in mathematical terms and real-world contexts, theorems involving similarity about triangles, including the following:</p> <p style="padding-left: 40px;">a) The square of the hypotenuse of a right triangle is equal to the sum of the squares of the other two sides.</p> <p>Understand how the properties of similar right triangles allow the trigonometric ratios to be defined and determine the sine, cosine, and tangent of an acute angle in a right triangle.</p> <p>Solve right triangles in applied problems using trigonometric ratios and the Pythagorean Theorem.</p>	<p>Ch7 Quiz Review</p> <p>Ch7 Quiz</p>	<p>Actively participate in review for Ch7 Quiz</p> <p>Complete Chapter 7 Quiz</p>	<p>Performance during Chapter 7 Quiz Review</p> <p>Performance on Chapter 7 Quiz</p>	<p>Whole Group/ Individual</p>	<p>Chapter 7 Quiz</p>	<p>Applies to IEP/504/ESOL Priority seating Modeling, pair with appropriate peer Retake in resource if needed</p>
Friday	<p>G.GM.1</p>	<p>.Use geometric shapes, their measures, and their properties to describe real-world objects.</p>	<p>CS8.1 – Find Angle Measures in Polygons</p>	<p>Complete warm up problems</p> <p>Review worksheets CS8.1</p> <p>Take notes and participate in lesson problems to reinforce concepts.</p> <ul style="list-style-type: none"> • Find interior and exterior angle measures in polygons <p>Complete classwork/homework</p>	<p>Class discussion participation during warm up and worksheet review.</p> <p>Questioning.</p> <p>Walk room during lesson to ensure proper notes are being taken.</p> <p>Walk room practice test to assist and answer questions as needed.</p>	<p>Whole class, Individual Small group</p>	<p>Warm up problem</p> <p>Notes for CS8.1</p> <p>Worksheet CS8.1</p>	<p>Applies to IEP/504/ESOL Priority seating Modeling, pair with appropriate peer</p>