

**Mrs. Logan Advanced Math**  
**Week 14: November 13-17**

**Module 3: Two-Dimensional Geometry**  
**Topic C: Applications of Congruence**

	Monday November 13th	Tuesday November 14th	Wednesday November 15th	Thursday November 16th	Friday November 17th
Lesson	Lesson 14: Exterior Angles of Triangles	Lesson 15: Proving the Pythagorean Theorem	Lesson 16: Proving the Converse of the Pythagorean Theorem	Lesson 17: Applications of the Pythagorean Theorem	Module 3 Topic C Quiz
Pages	233-250	251-260	263-269	271-290	195-290
We will...	learn another relationship about the angle measures of a triangle and use it to solve problems.	complete proofs of the Pythagorean Theorem.	examine the converse of the Pythagorean Theorem to determine if its true.	learn how to find distances in the coordinate plane and solve real-world and mathematical problems.	use rigid motions, congruence and conditions of a unique triangle to explain proofs of the Pythagorean Theorem and its converse.
Bell Ringer	Finding Angle Measures	Visual Pythagorean Theorem	Statements and Converses	Segment Lengths	Quiz Prep
Exit Ticket	Using an Exterior Angle	Rigid Motions and Proofs	Forming a Right Triangle	Build a Ramp	Quiz Feedback
I will...	determine the unknown measure of an interior or exterior angle of a triangle.	explain a proof of the Pythagorean Theorem.	determine whether a triangle is a right triangle through the converse of the Pythagorean Theorem.	use the Pythagorean Theorem to solve real-world and mathematical problems.	solve real-world and mathematical problems involving triangles and angles.
Reminders			Square Roots Sprint- quality not quantity.		M3TC Quiz
State Standards	8.G.A.2. Explain that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.				
	8.G.A.5 Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.				
	8.G.B.6 Explain a proof of the Pythagorean Theorem and its converse using the area of squares.				
	8.G.B.7 Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.				
	8.G.B.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.				