Mrs. Logan Advanced Math
Week 12: October 30-November 3

Module 3: Two-Dimensional Geometry
Topic A: Triangles and Circles
Topic B: Rigid Motions and Congruence

	Monday October 30th	Tuesday October 31st	Wednesday November 1st	Thursday November 2nd	Friday November 3rd
Lesson	Module 3 Topic A Quiz	Lesson 7: Motions of the Plane	Lesson 8: Translations, Reflections and Rotations	Lesson 9: Rigid Motions on the Coordinate Plane	Lesson 10: Sequencing the Rigid Motions
Pages	5-95	99-114	115-134	135-155	157-171
We will…	explore two-dimensional figures with an emphasis on triangles and circles.	use a transparency to help us model certain motions and describe the motions and their properties mathematically.	apply and precisely describe rigid motions.	use the coordinate plane as a tool to help us describe translations, reflections and rotations.	apply and describe sequences of rigid motions.
Bell Ringer	Quiz Prep	Repeated Shapes	Precise Language	Precise Translation?	Single Rigid Motion
Exit Ticket	Quiz Feedback	Identifying Rigid Motions	Draw and Label Rigid Motions	Graph and Label	Draw, Label and Describe
I will...	understand the conditions for a triangle and calculate area and circumference of circular figures.	informally describe how to map a figure to its image and demonstrate that the distance between two points stays the same under rigid motions.	apply translations, reflections and rotations to the plane and identify the basic properties of the rigid motions.	apply translations, refelctions and rotations on the coordinate plane and use coordinates to describe the location of an image under a translation, reflection or rotation.	apply and describe sequences of rigid motions and determine that the properties of individual rigid motions also apply for a sequence of rigid motions.
Reminders					Apply Rigid Motions worksheet for a grade.

State Standards
7.G.A.2. Draw (freehand, with ruler and protractor, or with technology) geometric shapes with given conditions.
7.G.B.4. Know the formulas for the area and circumference of a circle and solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
8.G.A.1 Verify experimentally the properties of rotations, reflections and translations.
8.G.A.1.a. Lines are taken to lines, and line segments of the same length.
8.G.A.1.b. Angles are taken to angles of the same measure.
8.G.A.1.c. Parallel lines are taken to parallel lines.
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 congruet figures, describe a sequence that exhibits the congruence between them.
8.G.A.3. Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.