Grade 6 Mathematics - *Modified from* [Unit 5 - Constructing and Deconstructing](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Integers and other rational numbers can be plotted on the coordinate plane to form polygons.

Vocabulary: area, perimeter, parallelogram, trapezoid, quadrilateral, polygon, coordinate plane, ordered pair, *x*-axis, *y*-axis, quadrant

Skills:
- Calculating the area of triangles, quadrilaterals (squares, rectangles, parallelograms, and trapezoids), and compound shapes.
- Plotting and naming points in all four quadrants.
- Finding the distance between two horizontal or vertical points on the coordinate plane.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Review of area of triangles and quadrilaterals	1. Review the Notes for Area of quadrilaterals and triangles 2. Complete the Word Problem Review.	Complete Word Problem Review Worksheet and submit via Google Forms.
Tuesday: Introduction to the 4 quadrants of the coordinate plane	1. Watch Khan Academy- Points on the Coordinate Plane	Complete Coordinate Plane Check-in and submit via Google Forms.

Wednesday: Introduction to the 4 quadrants of the coordinate plane
 	
 Practice plotting points in all 4 quadrants of the coordinate plane
	1. Watch Khan Academy- Quadrants of the Coordinate Plane
	
	 2. Continue to practice with coordinate planes. Play the following games and complete the Online Game Survey.
	     Rocket down
	     Stock the shelves
	     Locate the Alien
	     Treasure map graphing
	
	 3. Complete the Online Game Survey
		Complete the Online Game Survey and submit via Google Forms.

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Thursday: Drawing quadrilaterals on a coordinate plane	1. Watch Khan Academy- Drawing a quadrilateral on the coordinate plane	Complete Drawing Quadrilaterals on the Coordinate Plane and submit via Google Forms
Friday: Drawing triangles and quadrilaterals on a coordinate plane and finding the area of each.	1. Watch Khan Academy- Area of a parallelogram on the coordinate plane 2. Review the Notes for Area of quadrilaterals and triangles 3. Optional: Complete the Area of shapes on a coordinate plane activity. You will plot points on a coordinate plane and create shapes.	Complete Area of Shapes on the Coordinate Grid Google Form and submit.

Week criteria for success (attach student checklists or rubrics):

- I can determine the area of a triangle or a quadrilateral on a coordinate plane.
- I can plot points in all 4 quadrants on a coordinate plane.
- I know the location of all 4 quadrants.
- I can draw a given shape using points on a coordinate plane.

Supportive resources and tutorials for the week (plans for re-teaching):

1) How to plot point on a coordinate plane anchor chart
2) Coordinate Plane Quadrants Anchor Chart
3) Khan Academy - Points on a coordinate plane
4) Plotting points video
5) Practice plotting points in all 4 quadrants
6) Practice plotting points and calculating area & perimeter
7) worksheet for practice