

Grade 7

Distance Learning Module 1: Week of: March 30 to April 3

Content Area: Math Course Title Gr 7 Pre-Algebra - Modified from [Unit C - Geometry](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge:

- 1) Verify experimentally the properties of rotations, reflections, and translations:
- 2) Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.
- 3) Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.
- 4) Solve real-life and mathematical problems involving area.

Vocabulary: transformations, translations, rotations, reflections, dilations

Skills: Students will be able to do and identify transformations 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: Today you will be doing a review of some of the transformations you did way, way back when you were in school a few weeks ago. You will be working with 1) translations, 2) rotations about the origin and 3) reflections	<u>Transformation Golf Rigid Motion Desmos</u> (teacher will assign class code) <u>Quizziz Practice</u>	Teacher will observe student work on Desmos
Tuesday: Today you will be working with dilations	<u>Working with Dilations Desmos</u> (teacher will give you a class code)	Teacher will observe student work on Desmos

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
about the origin.	Dilations Explained Video Print and do only page 2 (Kuta wkst with answers) Dilations Quizziz	
Wednesday: Combinations of transformations	Transformation Golf: Non Rigid Motion Desmos (teacher will assign class code)	Teacher will observe student work on Desmos
Thursday: A little review today and tomorrow from last year about area of rectangles, triangles, and parallelograms You should do this on notebook paper. Write the formula. Show the substitutions, then find the area. Write it all out.	Area of Parallelograms and Triangles Practice Area of Parallelograms & Triangles Practice Area of a Triangle (Khan work) Area of Parallelograms (Khan work)	Teacher will check Khan work
Friday: Again, a review topic from last year: area of trapezoids. But this year you will have a formula to work with if you choose to. Look at the first three links then do the practice problems. You should do this on notebook paper. Write the formula. Show the substitutions, then find the area. Write it all out.	Explanation for Area of Trapezoid Formula Another Explanation for the Area of a Trapezoid Formula How to Use the Area of a Trapezoid Formula Area and Perimeter of Trapezoids Practice Optional Practice: Finding Area of Trapezoid Area of Trapezoids (Khan work)	Teacher will check Khan work

Week criteria for success:

- 1) I can translate (slide) a shape on the coordinate plane
- 2) I can identify a translation that was made on the coordinate plane
- 3) I can reflect a shape on the coordinate plane
- 4) I can identify a reflection that was made on the coordinate plane
- 5) I can rotate a shape on the coordinate plane around the origin.
- 6) I can identify a rotation that was made on the coordinate plane
- 7) I can dilate a shape with respect to the origin.
- 8) I can identify the scale factor of a dilation
- 9) I can find the area of a parallelogram, triangle or trapezoid.

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