

7th and 8th grade Math Lesson Plan
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Lesson Title:	Geometric Transformations
Subject:	Math
Unit Title and Central Focus:	Geometric Transformations
Unit Standards:	AFS.8.G.1.2 Understand 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. MAFS.8.G.1.1: Verify experimentally the properties of rotations, reflections, and translations. A.A.R.11.m: Describe Describe details, subject matter, context, and the formal characteristics of an artwork using art and design vocabulary.
Unit Goals:	Students will be exposed to different geometric transformations in 2D figures
Lesson Objectives:	- To understand congruent figures and translations - To describe using both math and art terms
Learning Targets (LT):	- Students will be able to identify congruent figures in 2D and 3D shapes. - Students will be able to identify, translations, reflections, and rotations in 2D and 3D shapes - Students will be able to use domain specific vocabulary to describe the shapes and structures
Engagement/Introduction:	- View videos from the Paine Arts Center on HYBYCOZO (Exhibit Artists) - Examine artwork that shows translations, reflections, rotations, business logos and more
Teaching and Learning:	Vocabulary - Negative and Positive Space through business logo Practice on 2 D space - Hybycozo Templates to create their own congruent and reflective designs

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Conclusion:	• Hybycozo Templates to create their own congruent and reflective designs
Assessment Criteria:	• Students will complete Buzz assignments for Math Grade. • Post Field Trip Survey used for anecdotal evidence of engagement.
Assessment Procedure:	<u>Post Field Trip Survey</u>
Supplies: (include budget estimate)	•