

Teacher / Team Name: Geometry Regular

Topic: Unit 12: Transformations (REG)

Days: 9

Subject(s): Math

Grade(s): 9th, 10th, 11th, 12th

Key Learning: Congruence transformations will be used to make conjectures and justify properties of geometric figures.



Unit Essential Question(s): How are congruence transformations used to make conjectures and justify properties of geometric figures?

 Concept: Transformations	 Concept: Symmetry	 Concept: Dialations
 Lesson Essential Question(s): How are compositions of transformations used? (A) What is reflection and how are objects reflected? (A) What is a translation and how is an object translated? (A) What is a rotation and how is an object rotated? (A) How are vectors used to translate figures? (A)	 Lesson Essential Question(s): What are the different types of symmetry and how are they used? (A)	 Lesson Essential Question(s): What is the difference between an enlargement and a reduction? (A)
 Vocabulary: line of reflection, translation vector, center of rotation, angle of rotation, composition of transformations, glide reflection, image, preimage	 Vocabulary: symmetry, line of symmetry, line symmetry, rational symmetry, center of symmetry, order of symmetry, magnitude of symmetry	 Vocabulary: dilation, reduction, enlargement

Additional Information:
 Sections: 9.1, 9.3, 9.4, 9.5, 9.6, 9.7 Omit: 9.2 (Matrices will not be covered.)

Attached Document(s):

Vocab Report for Topic: Unit 12: Transformations (REG)

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Concept: Transformations

- line of reflection -
- translation vector -
- center of rotation -
- angle of rotation -
- composition of transformations -
- glide reflection -
- image -
- preimage -

Concept: Symmetry

- symmetry -
- line of symmetry -
- line symmetry -
- rational symmetry -
- center of symmetry -
- order of symmetry -
- magnitude of symmetry -

Concept: Dialations

- dilation -
- reduction -
- enlargement -