

Teacher / Team Name: Geometry Regular

Topic: Unit 4: Congruent Triangles (REG)

Days: 18

Subject(s): Math

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

Key Learning: Triangles and their properties will be understood and used.

Unit Essential Question(s): **How are triangles and their properties used?**

Concept: Classifying Triangles	Concept: Angles of Triangles	Concept: Proving Triangles Congruent
Lesson Essential Question(s): How can a triangle be classified by sides? (A) How can a triangle be classified by angles? (A)	Lesson Essential Question(s): How do you use the Triangle-Sum and Exterior-Angle Theorems? (A)	Lesson Essential Question(s): What relationships exist between corresponding parts of congruent triangles? (A) How do you use SAS and HL to prove triangle congruence? (A) How do you use ASA and AAS to prove triangle congruence? (A) How do you use SSS to prove triangle congruence? (A)
Vocabulary: acute triangle, equiangular triangle, obtuse triangle, right triangle, equilateral triangle, isosceles triangle, scalene triangle	Vocabulary: auxiliary line, exterior angle, remote interior, angles, flow proof	Vocabulary: congruent, congruent polygons, corresponding parts, included angle, included sides
Concept: Isosceles and Equilateral Triangles	Concept: Congruence Transformations	Concept: Triangles and Coordinate Proofs
Lesson Essential Question(s): What are the properties of isosceles and equilateral triangles? (A)	Lesson Essential Question(s): What transformations create an image congruent to the original figure? (A)	Lesson Essential Question(s): How do you use coordinate geometry to perform transformations? (A)
Vocabulary: legs, vertex, base angles, base	Vocabulary: transformation, congruence, preimage, image, isometry, reflection, translation, rotation	Vocabulary: coordinate proof

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Additional Information:

Sections: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8

Attached Document(s):

Vocab Report for Topic: Unit 4: Congruent Triangles (REG)

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Concept: Classifying Triangles

- acute triangle -
- equiangular triangle -
- obtuse triangle -
- right triangle -
- equilateral triangle -
- isosceles triangle -
- scalene triangle -

Concept: Angles of Triangles

- auxiliary line -
- exterior angle -
- remote interior -
- angles -
- flow proof -

Concept: Proving Triangles Congruent

- congruent -
- congruent polygons -
- corresponding parts -
- included angle -
- included sides -

Concept: Isosceles and Equilateral Triangles

- legs -
- vertex -
- base angles -
- base -

Concept: Congruence Transformations

- transformation -
- congruence -
- preimage -
- image -
- isometry -
- reflection -
- translation -
- rotation -

Concept: Triangles and Coordinate Proofs

- coordinate proof -