

Teacher / Team Name: Geometry Regular

Topic: Unit 5: Relationships with Triangles (REG)

Days: 14

Subject(s): Math

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

**Key Learning: Triangle relationships are used to find and compare angle measures and distances.**



**Unit Essential Question(s): How are triangle relationships are used to find and compare angle measures and distances?**

**Concept:**  
**Bisectors, Medians, and Altitudes of Triangles**

**Concept:**  
**Triangle Inequalities**

**Lesson Essential Question(s):**  
How are bisectors used in triangles? (A)  
  
How do you identify and use medians and altitudes of triangles? (A)

**Lesson Essential Question(s):**  
How do you use the inequality relationships between the angles and sides of a triangle? (A)  
  
How do you use the triangle inequality theorem to identify possible triangles? (A)  
  
How do you prove triangle relationships using the hinge theorem or its converse? (A)

**Vocabulary:**  
perpendicular bisector, concurrent lines, point of concurrency, circumcenter, incenter, median, centroid, altitude, orthocenter, midsegment of a triangle, equidistant

**Vocabulary:**  
side opposite, inequality, included angle

**Additional Information:**  
Sections: 5.1, 5.2, 5.3, 5.4, 5.5, 5.6

**Attached Document(s):**

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Vocab Report for Topic: Unit 5: Relationships with Triangles (REG)

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**Concept: Bisectors, Medians, and Altitudes of Triangles**

- perpendicular bisector -
- concurrent lines -
- point of concurrency -
- circumcenter -
- incenter -
- median -
- centroid -
- altitude -
- orthocenter -
- midsegment of a triangle -
- equidistant -

**Concept: Triangle Inequalities**

- side opposite -
- inequality -
- included angle -