

Teacher / Team Name: Geometry Honors

Topic: Unit 5: Relationships with Triangles (HON)

Days: 12

Subject(s): Math

Grade(s): 8th, 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

Concept:
Indirect Proof

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)

Lesson Essential Question(s):
When and how do you use indirect proofs? (A)

Vocabulary:
perpendicular bisector, concurrent lines, point of concurrency, circumcenter, incenter, median, centroid, altitude, orthocenter

Vocabulary:

Vocabulary:
indirect reasoning, indirect proof, proof by contradiction

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 (HON)

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Concept: Bisectors, Medians, and Altitudes of Triangles

- perpendicular bisector -
- concurrent lines -
- point of concurrency -
- circumcenter -
- incenter -
- median -
- centroid -
- altitude -
- orthocenter -

Concept: Indirect Proof

- indirect reasoning -
- indirect proof -
- proof by contradiction -