

Teacher / Team Name: Geometry Honors

Topic: Unit 9: Circles (HON)

Days: 12

Subject(s): Math

Grade(s): 8th, 9th, 10th, 11th, 12th

Key Learning: Relationships between circles and the lines and segments that intersect the circle will be understood and used.



Unit Essential Question(s): How do you use the relationships between circles and the lines and segments that intersect the circle?



Concept:
Circles, Circumference, and Equations

Concept:
Arcs, Angles, and Chords

Concept:
Tangents, Secants, and Special Segments



Lesson Essential Question(s):
How do you solve problems involving the circumference of a circle? (A)

How do you write and graph the equation of a circle? (A)

Lesson Essential Question(s):
How do you find the measure and length of an arc of a circle? (A)

How can you recognize and use relationships between arcs and chords? (A)

How do you find the measure of an inscribed angle? (A)

Lesson Essential Question(s):
How can you verify that a segment is tangent to a circle and use the tangent properties? (A)

How do you use the properties of chords, secants, and tangents to a circle? (A)

How can you find the measures of segments that intersect in the interior and exterior of a circle? (A)



Vocabulary:
circle, center, radius, chord, diameter, congruent circles, concentric circles, circumference, pi, inscribed, circumscribed, compound locus

Vocabulary:
central angle, arc, minor arc, major arc, semicircle, congruent arcs, adjacent arcs, inscribed angles, intercepted arc

Vocabulary:
tangent, point of tangency, common tangent, secant, chord segment, secant segment, external secant segment, tangent segment

Additional Information:
Sections: 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8

Attached Document(s):

Vocab Report for Topic: Unit 9: Circles (HON)

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Concept: Circles, Circumference, and Equations

circle -
center -
radius -
chord -
diameter -
congruent circles -
concentric circles -
circumference -
pi -
inscribed -
circumscribed -
compound locus -

Concept: Arcs, Angles, and Chords

central angle -
arc -
minor arc -
major arc -
semicircle -
congruent arcs -
adjacent arcs -
inscribed angles -
intercepted arc -

Concept: Tangents, Secants, and Special Segments

tangent -
point of tangency -
common tangent -
secant -
chord segment -
secant segment -
external secant segment -
tangent segment -