

# Unit #4 Circles

Content Area: **Math**  
Course(s):  
Time Period:  
Length: **6 weeks**  
Status: **Published**

## State Mandated Topics Addressed in this Unit

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N/A	N/A

## Circles

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## Learning Objectives

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- Objective 1 - Prove that all circles are similar.
- Objective 2 - Identify and describe relationships among inscribed angles, radii, and chords. Include the relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects the circle.

## Essential Skills

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- Essential Skill 1 - Prove all circles are similar.
- Essential Skill 2 - Identify inscribed angles, radii, and chords.
- Essential Skill 3 - Describe the relationship among inscribed angles, radii, and chords.
- Essential Skill 4 - Describe the relationship between central angle, inscribed angle and circumscribed angles
- Essential Skill 5 - Describe that inscribed angles on a diameter of a circle are right angles.
- Essential Skill 6 - Describe that the angle that is formed where the radius of a circle meets the line tangent to a circle is a perpendicular angle .

## Standards

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MATH.9-12.G.C.A.1

Prove that all circles are similar.

MATH.9-12.G.C.A.2

Identify and describe relationships among inscribed angles, radii, and chords. Include the relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects the circle.

## **Instructional Tasks/Activities**

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- G.C.A.1 Worksheet #1 – Circle Similarity
- G.C.A.2 Worksheet #2 – Arc Relationships

## **Assessment Procedure**

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- Classroom Total Participation Technique
- Classwork
- DBQ
- Essay
- Exit Ticket/Entrance Ticket/Do Now
- Journal / Student Reflection
- Kahoot
- Other named in lesson
- Peer Review
- Performance
- Problem Correction
- Project
- Quiz
- Rubric
- Teacher Collected Data
- Test
- Test Review
- Worksheet

## **Recommended Technology Activities**

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- Appropriate Content Specific Online Resource
- Appropriate Content Specific Online Resource
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Gimkit
- GoGuardian
- Google Classroom
- Google Docs
- Google Slides
- Google Slides

- Kahoot
- MagicSchool AI
- Other- Specified in Lesson
- Quiziz
- Screencastify

## **Accommodations & Modifications & Differentiation**

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Accommodations and Modifications should be used to meet individual needs. Their IEP and 504 plans should be used in addition to the following suggestions.

## **Gifted and Talented**

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- Compare & Contrast
- Conferencing
- Debates
- Jigsaw
- Peer Partner Learning
- Problem Solving
- Structured Controversy
- Think, Pair, Share
- Tutorial Groups

## **Instruction/Materials**

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- alter format of materials (type/highlight, etc.)
- color code materials
- eliminate answers
- extended time
- extended time
- large print
- modified quiz
- modified test
- Modify Assignments as Needed
- Modify/Repeat/Model directions
- necessary assignments only
- Other (specify in plans)
- other- named in lesson

- provide assistance and cues for transitions
- provide daily assignment list
- read class materials orally
- reduce work load
- shorten assignments
- study guide/outline
- utilize multi-sensory modes to reinforce instruction

## **Environment**

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- alter physical room environment
- assign peer tutors/work buddies/note takers
- assign preferential seating
- individualized instruction/small group
- modify student schedule (Describe)
- other- please specify in plans
- provide desktop list/formula

## **Honors Modifications**

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## **Resources**

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- <http://geometrycommoncore.com>
- <https://education.ti.com/en/timathnspired/us/standards-search>
- <https://www.engageny.org/resource/high-school-geometry>