

## High School Algebra Playlist: Proving Similarity Circles

Aligns with [CCSS.Math.Content.HSG.C.A.1](#): Prove that all circles are similar.

### Related Standards

- [CCSS.Math.Content.HSG.SRT.A.2](#): Given two figures, use the definition of similarity in terms of similarity transformations to decide if they are similar; explain using similarity transformations the meaning of similarity for triangles as the equality of all corresponding pairs of angles and the proportionality of all corresponding pairs of sides.

PREVIEW



## Objectives

In this module, you will learn and practice the following skills:

- understand similarity in circles
- prove that all circles are similar

Let's get started!

## Key Terms

- Figures that are **similar** are identical in shape, but not necessarily in size.
- A **circle** is the set of points equidistant from a point called the center.

PREVIEW



## Proving Similarity in Circles

([CCSS.Math.Content.HSG.C.A.1](#))

Figures that are **similar** are identical in shape, but not necessarily in size. A **circle** is the set of points equidistant from another point.

If your students...

### Confuse similarity and congruence:

WATCH: **Similar triangle basics**

[https://www.khanacademy.org/math/geometry/similarity/triangle\\_similarity/v/similar-triangle-basics](https://www.khanacademy.org/math/geometry/similarity/triangle_similarity/v/similar-triangle-basics)

### Misunderstand how to show similarity through transformations:

WATCH: **Testing similarity through transformations**

<https://www.khanacademy.org/math/basic-geo/transformations-congruence-similarity-geo/basic-geo-congruence-similarity/v/testing-similarity-through-transformations>

### For more information about Proving Similarity in Circles, watch these videos:

[https://learnzillion.com/lesson\\_plans/6602-establish-circle-similarity-using-similar-triangles](https://learnzillion.com/lesson_plans/6602-establish-circle-similarity-using-similar-triangles)

[https://learnzillion.com/lesson\\_plans/7259-show-that-all-circles-are-similar-using-similar-triangles#fndtn-lesson](https://learnzillion.com/lesson_plans/7259-show-that-all-circles-are-similar-using-similar-triangles#fndtn-lesson)

