Understand and apply theorems about circles (Standards G.C.1-4)
Standard II.G.C.1: Prove that all circles are similar.

Concepts and Skills to Master
• Recognize that any two circles are related by a dilation, possibly along with a translation. • Write up a formal argument explaining their reasoning for why two circles must be similar.

Related Standards: Current Course	Related Standards: Future Courses
II.G.C.2; II.G.C.5; II.G.SRT.1; II.G.SRT.2; II.G.SRT.5; II.G.GPE.1; II.G.GPE.4	III.F.TF.1; III.G.MG.1; III.G.MG.3;

Support for Teachers

Critical Background Knowledge
• Correctly name shapes (K.G.2) • Know the area and circumference of a circle (7.G.4) • Know precise definition of circle (I.G.CO.1)

Academic Vocabulary

Resources
Curriculum Resources: https://www.uen.org/core/core.do?courseNum=5620#71552

Understand and apply theorems about circles (Standards G.C.1-4)	
Standard II.G.C.2: Identify and describe relationships among inscribed angles, radii, and chords. *Relationships 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.*	
Concepts and Skills to Master	
- Explore various properties related to circles (include measures of central, inscribed and circumscribed angles) - Form conjectures about the relationships they find. - Develop justifications for why their conjectures work.	
Related Standards: Current Course	Related Standards: Future Courses
II.G.C.1; II.G.C.3; II.G.C.4; II.G.C.5; II.G.GPE.1; II.G.GPE.4, II.G.C0.9, II.G.C0.10, II.G.C0.11	III.G.MG.1; III.G.MG.3

Support for Teachers

Critical Background Knowledge
- Correctly name shapes (K.G.2)   - Draw points, lines, lines segments, ray, angles, and parallel and perpendicular lines. Identify these in two-dimensional figures. (4.G.1)   - Know the area and circumference of a circle (7.G.4)   - Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment (I.G.CO.1)
Academic Vocabulary
inscribed angle, central angle, circumscribed angle, chord, tangent line
Resources
Curriculum Resources: https://www.uen.org/core/core.do?courseNum=5620#71552