

Understand and apply theorems about circles (Standards G.C.1-4)	
<b>Standard II.G.C.1:</b> Prove that all circles are similar.	
Concepts and Skills to Master	
<ul style="list-style-type: none"> <li>Recognize that any two circles are related by a dilation, possibly along with a translation.</li> <li>Write up a formal argument explaining their reasoning for why two circles must be similar.</li> </ul>	
Related Standards: Current Course	Related Standards: Future Courses
<a href="#">II.G.C.2</a> ; <a href="#">II.G.C.5</a> ; <a href="#">II.G.SRT.1</a> ; <a href="#">II.G.SRT.2</a> ; <a href="#">II.G.SRT.5</a> ; <a href="#">II.G.GPE.1</a> ; <a href="#">II.G.GPE.4</a>	<a href="#">III.F.TF.1</a> ; <a href="#">III.G.MG.1</a> ; <a href="#">III.G.MG.3</a> ;

## Support for Teachers

Critical Background Knowledge
<ul style="list-style-type: none"> <li>Correctly name shapes (<a href="#">K.G.2</a>)</li> <li>Know the area and circumference of a circle (<a href="#">7.G.4</a>)</li> <li>Know precise definition of circle (<a href="#">I.G.CO.1</a>)</li> </ul>
Academic Vocabulary
Resources
<a href="https://www.uen.org/core/core.do?courseNum=5620#71552">Curriculum Resources</a> : <a href="https://www.uen.org/core/core.do?courseNum=5620#71552">https://www.uen.org/core/core.do?courseNum=5620#71552</a>

Understand and apply theorems about circles (Standards G.C.1-4)	
<b>Standard II.G.C.2:</b> Identify and describe relationships among inscribed angles, radii, and chords. <i>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.</i>	
Concepts and Skills to Master	
<ul style="list-style-type: none"> <li>• Explore various properties related to circles (include measures of central, inscribed and circumscribed angles)</li> <li>• Form conjectures about the relationships they find.</li> <li>• Develop justifications for why their conjectures work.</li> </ul>	
Related Standards: Current Course	Related Standards: Future Courses
<a href="#">II.G.C.1</a> ; <a href="#">II.G.C.3</a> ; <a href="#">II.G.C.4</a> ; <a href="#">II.G.C.5</a> ; <a href="#">II.G.GPE.1</a> ; <a href="#">II.G.GPE.4</a> , <a href="#">II.G.CO.9</a> , <a href="#">II.G.CO.10</a> , <a href="#">II.G.CO.11</a>	<a href="#">III.G.MG.1</a> ; <a href="#">III.G.MG.3</a>

## Support for Teachers

Critical Background Knowledge
<ul style="list-style-type: none"> <li>• Correctly name shapes (<a href="#">K.G.2</a>)</li> <li>• Draw points, lines, line segments, ray, angles, and parallel and perpendicular lines. Identify these in two-dimensional figures. (<a href="#">4.G.1</a>)</li> <li>• Know the area and circumference of a circle (<a href="#">7.G.4</a>)</li> <li>• Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment (<a href="#">1.G.CO.1</a>)</li> </ul>
Academic Vocabulary
inscribed angle, central angle, circumscribed angle, chord, tangent line
Resources
<a href="https://www.uen.org/core/core.do?courseNum=5620#71552">Curriculum Resources</a> : <a href="https://www.uen.org/core/core.do?courseNum=5620#71552">https://www.uen.org/core/core.do?courseNum=5620#71552</a>