

**Cocalico School District**  
**Year-at-a-Glance - Curriculum Overview**

**Department: Math**

**Course: Geometry (123)**

**Grade Level: 9-12**

**Big Ideas**

- Apply the basics of geometric relationships as they relate to lines, angles, and polygons
- Apply the basic laws of logic and reasoning skills
- Use deductive reasoning to write geometric proofs

Units of Study	% of Course Time	Textbooks & Supplemental Materials	Assessments	Standards Addressed
<ul style="list-style-type: none"> <li>• Basics of Geometry</li> </ul>	20%	<ul style="list-style-type: none"> <li>• <i>Big Ideas Math- Geometry</i></li> <li>• Calculators</li> <li>• Schoology</li> <li>• Geogebra</li> <li>• Teacher made resources</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Test</li> <li>• “I Spy”</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.3.HS.A.3</li> <li>• CC.2.3.HS.A.11</li> <li>• CC.2.3.HS.A.14</li> </ul>
<ul style="list-style-type: none"> <li>• Reasoning and Proofs</li> </ul>	20%	<ul style="list-style-type: none"> <li>• <i>Big Ideas Math- Geometry</i></li> <li>• Calculators</li> <li>• Schoology</li> <li>• Geogebra</li> <li>• Supplemental videos</li> <li>• Teacher made resources</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Proof Pieces</li> <li>• Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.3.HS.A.3</li> <li>• CC.2.3.HS.A.14</li> </ul>
<ul style="list-style-type: none"> <li>• Parallel and Perpendicular Lines</li> </ul>	15%	<ul style="list-style-type: none"> <li>• <i>Big Ideas Math- Geometry</i></li> <li>• Calculators</li> <li>• Schoology</li> <li>• Geogebra</li> <li>• Supplemental videos</li> <li>• Teacher made resources</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Test</li> <li>• Parallel City Project</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.3.HS.A.3</li> <li>• CC.2.3.HS.A.11</li> <li>• CC.2.3.HS.A.14</li> </ul>
<ul style="list-style-type: none"> <li>• Triangles</li> </ul>	15%	<ul style="list-style-type: none"> <li>• <i>Big Ideas Math- Geometry</i></li> <li>• Calculators</li> <li>• Schoology</li> <li>• Geogebra</li> <li>• Supplemental videos</li> <li>• Teacher made resources</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Test</li> <li>• Triangle Art/ Logo project</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.3.8.A.2</li> <li>• CC.2.3.HS.A.3</li> <li>• CC.2.3.HS.A.14</li> </ul>
<ul style="list-style-type: none"> <li>• Quadrilaterals and Other Polygons</li> </ul>	10%	<ul style="list-style-type: none"> <li>• <i>Big Ideas Math- Geometry</i></li> <li>• Calculators</li> <li>• Schoology</li> <li>• Geogebra</li> <li>• Supplemental videos</li> <li>• Teacher made resources</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.3.HS.A.3</li> <li>• CC.2.3.HS.A.11</li> <li>• CC.2.3.HS.A.14</li> </ul>
<ul style="list-style-type: none"> <li>• Right Triangles</li> </ul>	10%	<ul style="list-style-type: none"> <li>• <i>Big Ideas Math- Geometry</i></li> <li>• Calculators</li> <li>• Schoology</li> <li>• Geogebra</li> <li>• Supplemental videos</li> <li>• Teacher made resources</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.3.HS.A.3</li> <li>• CC.2.3.HS.A.14</li> </ul>
<ul style="list-style-type: none"> <li>• Circles</li> </ul>	10%	<ul style="list-style-type: none"> <li>• <i>Big Ideas Math- Geometry</i></li> <li>• Calculators</li> <li>• Schoology</li> <li>• Geogebra</li> <li>• Supplemental videos</li> <li>• Teacher made resources</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Test</li> </ul>	<ul style="list-style-type: none"> <li>• CC.2.3.HS.A.3</li> <li>• CC.2.3.HS.A.14</li> </ul>



**Eagle P.A.C.T. Course Connections:**

Students will use problem solving and an informal guided discovery approach to discover geometric properties. Students will develop independent thinking and collaboration skills, while they investigate geometric definitions and discover geometric relationships.