

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

Department: Math

Course: Honors Geometry 124

Grade Level: 9-10

Big Ideas

- To learn the basics of geometric relationships as they relate to lines, angles, and polygons
- To learn the basics of geometric proofs

Units of Study	% of Course Time	Textbooks & Supplemental Materials	Assessments	Standards Addressed
• Basics of Geometry	15%	<ul style="list-style-type: none"> • <i>Big Ideas Math-Geometry</i> • Calculators • Schoology • Geogebra • Teacher made resources 	<ul style="list-style-type: none"> • Quiz • Test • “I Spy” 	<ul style="list-style-type: none"> • CC.2.3.HS.A.3 • CC.2.3.HS.A.11 • CC.2.3.HS.A.14
• Reasoning and Proofs	10%	<ul style="list-style-type: none"> • <i>Big Ideas Math-Geometry</i> • Calculators • Schoology • Geogebra • Supplemental videos • Teacher made resources 	<ul style="list-style-type: none"> • Quiz • Proof Pieces • Test 	<ul style="list-style-type: none"> • CC.2.3.HS.A.3 • CC.2.3.HS.A.14
• Parallel and Perpendicular Lines	10%	<ul style="list-style-type: none"> • <i>Big Ideas Math-Geometry</i> • Calculators • Schoology • Geogebra • Supplemental videos • Teacher made resources 	<ul style="list-style-type: none"> • Quiz • Test • Parallel City Project 	<ul style="list-style-type: none"> • CC.2.3.HS.A.3 • CC.2.3.HS.A.11 • CC.2.3.HS.A.14
• Triangles	15%	<ul style="list-style-type: none"> • <i>Big Ideas Math-Geometry</i> • Calculators • Schoology • Geogebra • Supplemental videos • Teacher made resources 	<ul style="list-style-type: none"> • Quiz • Test 	<ul style="list-style-type: none"> • CC.2.3.8.A.2 • CC.2.3.HS.A.3 • CC.2.3.HS.A.14
• Quadrilaterals and Other Polygons	10%	<ul style="list-style-type: none"> • <i>Big Ideas Math-Geometry</i> • Calculators • Schoology • Geogebra • Supplemental videos • Teacher made resources 	<ul style="list-style-type: none"> • Quiz • Test 	<ul style="list-style-type: none"> • CC.2.3.HS.A.3 • CC.2.3.HS.A.11 • CC.2.3.HS.A.14
• Similarity	10%	<ul style="list-style-type: none"> • <i>Big Ideas Math-Geometry</i> • Calculators • Schoology • Geogebra • Supplemental videos • Teacher made resources 	<ul style="list-style-type: none"> • Quiz • Test 	<ul style="list-style-type: none"> • CC.2.3.8.A.2 • CC.2.3.HS.A.3 • CC.2.3.HS.A.6
• Right Triangles	10%	<ul style="list-style-type: none"> • <i>Big Ideas Math-Geometry</i> • Calculators • Schoology 	<ul style="list-style-type: none"> • Quiz • Test 	<ul style="list-style-type: none"> • CC.2.3.HS.A.3 • CC.2.3.HS.A.14

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		<ul style="list-style-type: none"> • Geogebra • Supplemental videos • Teacher made resources 		
<ul style="list-style-type: none"> • Circles 	10%	<ul style="list-style-type: none"> • <i>Big Ideas Math-Geometry</i> • Calculators • Schoology • Geogebra • Supplemental videos • Teacher made resources 	<ul style="list-style-type: none"> • Quiz • Test 	<ul style="list-style-type: none"> • CC.2.3.HS.A.3 • CC.2.3.HS.A.14
<ul style="list-style-type: none"> • Circumference, Area, and Volume 	10%	<ul style="list-style-type: none"> • <i>Big Ideas Math-Geometry</i> • Calculators • Schoology • GeoGebra • Supplemental videos • Teacher made resources 	<ul style="list-style-type: none"> • Quiz • Test 	<ul style="list-style-type: none"> • CC.2.3.HS.A.8 • CC.2.3.HS.A.9 • CC.2.3.HS.A.3



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 skills and collaboration skills, while they investigate geometric definitions and discover geometric relationships.