





# Cornwall-Lebanon School District Curriculum Overview

## Geometry – High School

length of time in weeks	Concepts & Competencies	Common Assessments	Academic Standards (PA Core if applicable)
Unit 1  4	<p style="text-align: center;"><b><u>Points, Lines and Planes</u></b></p> <p>Students will solve for missing parts of line segments.            Students will find distance and midpoint on a coordinate plane.            Students will identify basic geometric figures.            Students will understand patterns and determine specific terms of each.            Students will graph points, and lines on a coordinate plane.            Students will determine the slope of a line on a coordinate plane.</p>	<ul style="list-style-type: none"> <li>➤ Points, lines and planes Quiz</li> <li>➤ Distance/Midpoint Quiz</li> <li>➤ Unit 1 Test</li> </ul>	CC.2.3.HS.A.3
Unit 2  4	<p style="text-align: center;"><b><u>Angle Measure</u></b></p> <p>Students will identify angles using correct vocabulary.            Students will be able to use a protractor to measure an angle.            Students will solve for an angle's measure.</p>	<ul style="list-style-type: none"> <li>➤ Angle Measure Quiz</li> <li>➤ Unit 2 Test</li> <li>➤ Marking Period 1 Exam</li> </ul>	CC.2.3.HS.A.3
Unit 3  5	<p style="text-align: center;"><b><u>Parallel and Perpendicular Lines</u></b></p> <p>Students will identify whether lines are parallel, perpendicular, skew, or oblique.            Students will write the equation for a line in slope-intercept form.            Students will write equations of parallel and perpendicular lines.            Students will solve for angles formed by parallel and perpendicular lines.</p>	<ul style="list-style-type: none"> <li>➤ Parallel Lines Quiz</li> <li>➤ Writing equations of lines Quiz</li> <li>➤ Parallel and Perpendicular lines Exam</li> </ul>	CC.2.3.HS.A.3 CC.2.2.HS.D.1
Unit 4  4	<p style="text-align: center;"><b><u>Congruent Triangles</u></b></p> <p>Students will classify triangles by angles and sides.            Students will solve for missing angles of a triangle.            Students will solve for missing parts of congruent shapes.            Students will solve problems using properties of isosceles and equilateral triangles.</p>	<ul style="list-style-type: none"> <li>➤ Triangles Quiz</li> <li>➤ Congruent Triangles Quiz</li> <li>➤ Unit 4 Test</li> <li>➤ Midterm Exam (Cumulative)</li> </ul>	CC.2.3.HS.A.3 CC.2.3.HS.A.4 CC.2.3.HS.A.11

<p>Unit 5</p>	<p><b>4</b></p> <p><b><u>Relationships in Triangles</u></b></p> <p>Students will solve for missing parts of triangles that have medians, altitudes, perpendicular bisectors and angle bisectors.  Students will order a triangle's sides and angles from smallest to largest.  Students will determine whether three lengths can create a triangle.  Students will use the Pythagorean theorem to solve problems.</p>	<ul style="list-style-type: none"> <li>➤ Special Triangle Segments Quiz</li> <li>➤ Right Triangle Quiz</li> <li>➤ Unit 5 Test</li> </ul>	<p>CC.2.3.HS.A.3  CC.2.3.HS.A.11  CC.2.2.HS.D.1</p>
<p>Unit 6</p>	<p><b>2</b></p> <p><b><u>Polygons</u></b></p> <p>Students will name polygons.  Students will solve for missing parts of rectangles, rhombi, squares, and parallelograms.  Students will identify special quadrilaterals.</p>	<ul style="list-style-type: none"> <li>➤ Basic Polygons Quiz</li> <li>➤ Unit 6 Test</li> </ul>	<p>CC.2.3.HS.A.3  CC.2.3.HS.A.11</p>
<p>Unit 7</p>	<p><b>3</b></p> <p><b><u>Proportions and Similarity</u></b></p> <p>Students will write ratios and solve proportions.  Students will solve for missing parts of similar triangles.  Students will solve real-world applications of similar triangles.</p>	<ul style="list-style-type: none"> <li>➤ Ratios and Proportions Quiz</li> <li>➤ Similar triangles Quiz</li> <li>➤ Unit 7 Test</li> </ul>	<p>CC.2.3.HS.A.3  CC.2.3.HS.A.6  CC.2.3.HS.A.11  CC.2.3.HS.A.14</p>
<p>Unit 8</p>	<p><b>3</b></p> <p><b><u>Area</u></b></p> <p>Students will calculate the area of parallelograms and triangles.  Students will calculate the area of trapezoids, rhombi and kites.  Students will calculate the area of circles.  Students will calculate the area of composite figures.</p>	<ul style="list-style-type: none"> <li>➤ Area of triangles and quadrilaterals Quiz</li> <li>➤ Area of a circle and Composite Figures Quiz</li> <li>➤ Unit 8 Test</li> </ul>	<p>CC.2.3.HS.A.9  CC.2.3.HS.A.14</p>
<p>Unit 9</p>	<p><b>4</b></p> <p><b><u>Surface Area and Volume</u></b></p> <p>Students will calculate the surface area and volume of prisms and cylinders.  Students will calculate the surface area and volume of pyramids and cones.  Students will calculate the surface area and volume of spheres.  Students will calculate the surface area and volume of composite solids.</p>	<ul style="list-style-type: none"> <li>➤ Surface area Quiz</li> <li>➤ Volume Quiz</li> <li>➤ Unit 9 Test</li> <li>➤ Final Exam</li> </ul>	<p>CC.2.3.HS.A.12  CC.2.3.HS.A.13  CC.2.3.HS.A.14</p>