

**Unit 1: Geometry Basics**

~August 28-September 11

**Standards:**

Review of Previous Standards

G.3 The student will solve problems involving symmetry and transformation. This will include  
a) investigating and using formulas for determining distance, midpoint

G.4 The student will construct and justify the constructions of  
a) a line segment congruent to a given line segment;  
e) the bisector of a given angle,  
f) an angle congruent to a given angle;

Topic	I can...	Resources
<p>Points, Rays, Lines, Planes, Segments, and Angles</p>	<ul style="list-style-type: none"> <li>✓ name points, segments, rays, and lines using correct notation.</li> <li>✓ name a plane using correct notation.</li> <li>✓ name the intersection of two planes.</li> <li>✓ find the length of segments and determine congruence.</li> <li>✓ name and classify angles.</li> </ul>	<p>Intro to Euclidean Geometry and Angles Videos  <a href="https://www.khanacademy.org/math/geometry/hs-geo-foundations#hs-geo-intro-euclid">https://www.khanacademy.org/math/geometry/hs-geo-foundations#hs-geo-intro-euclid</a></p> <p>Midpoint  <a href="https://www.khanacademy.org/math/geometry/hs-geo-foundations#hs-geo-intro-euclid">https://www.khanacademy.org/math/geometry/hs-geo-foundations#hs-geo-intro-euclid</a></p> <p>Distance  <a href="https://www.khanacademy.org/math/basic-geo/basic-geometry-pythagorean-theorem/pythagorean-theorem-distance/a/distance-formula">https://www.khanacademy.org/math/basic-geo/basic-geometry-pythagorean-theorem/pythagorean-theorem-distance/a/distance-formula</a></p>
<p>Measuring Segments and Angles, Solving for Angle Measures, and Basic Angle Relationships</p>	<ul style="list-style-type: none"> <li>✓ solve problems using the Segment Addition Postulate and/or midpoint.</li> <li>✓ solve problems using the Angle Addition Postulate.</li> <li>✓ identify complementary and supplementary angles.</li> <li>✓ draw, label, and solve problems involving an angle bisector.</li> <li>✓ identify adjacent angles, linear pairs, and vertical angles.</li> <li>✓ solve problems involving linear pairs and vertical angles.</li> </ul>	<p>Constructions  <a href="https://www.mathopenref.com/constcopysegment.html">https://www.mathopenref.com/constcopysegment.html</a>  <a href="https://www.mathopenref.com/constcopyangle.html">https://www.mathopenref.com/constcopyangle.html</a>  <a href="https://www.mathopenref.com/constbisectangle.html">https://www.mathopenref.com/constbisectangle.html</a></p> <p>Sample Assessment/Review with Solutions  <a href="..\Unit 1 Geometry Basics\Unit 1 Sample Assessment.pdf">..\Unit 1 Geometry Basics\Unit 1 Sample Assessment.pdf</a>  <a href="..\Unit 1 Geometry Basics\Unit 1 Sample Assessment Solutions.pdf">..\Unit 1 Geometry Basics\Unit 1 Sample Assessment Solutions.pdf</a></p>

Midpoint and Distance in the Coordinate Plane	<ul style="list-style-type: none"><li>✓ determine the distance between two coordinates.</li><li>✓ determine the midpoint between two coordinates.</li><li>✓ identify the missing endpoint given the midpoint and one endpoint.</li></ul>	
<b>1.4:</b> Constructions: Copy a Segment, Copy and Angle and Bisect an Angle	<ul style="list-style-type: none"><li>✓ identify constructions given some steps or the final product.</li><li>✓ make a construction using only a compass and straightedge.</li></ul>	