

## Geometry-6<sup>th</sup> Grade; 1st Trimester (2<sup>nd</sup> Half)

Standards	Vocabulary	Assessments/Activities	Resources
<p><b><u>Understand and apply basic properties</u></b>  <b>G.GS.06.01</b> Understand and apply basic properties of lines, angles, and triangles, including:</p> <ul style="list-style-type: none"> <li>• triangle inequality</li> <li>• relationships of vertical angles, complementary angles, supplementary angles</li> <li>• congruence of corresponding and alternate interior angles when parallel lines — are cut by a transversal, and that such congruencies imply parallel lines</li> <li>• locate interior and exterior angles of any triangle, and use the property that an exterior — angle of a triangle is equal to the sum of the remote (opposite) interior angles</li> <li>• know that the sum of the exterior angles of a convex polygon is <math>360^\circ</math>.</li> </ul> <p><b><u>Understand the concept of congruence and basic transformations</u></b>  <b>G.GS.06.02</b> Understand that for polygons, congruence means corresponding sides and angles have equal measures.</p> <p><b>G.TR.06.03</b> Understand the basic rigid motions in the plane (reflections, rotations, translations), relate these to congruence, and apply them to solve problems.</p> <p><b>G.TR.06.04</b> Understand and use simple compositions of basic rigid transformations, e.g., a translation followed by a reflection.</p> <p><b><u>Construct geometric shapes</u></b>  <b>G.SR.06.05</b> Use paper folding to perform basic geometric constructions of perpendicular lines, midpoints of line segments and angle bisectors; justify informally.</p>	<p>alternate interior angle            complementary angle            concave            congruent            convex            corresponding angle            corresponding sides            exterior angle of triangle            interior angle of triangle            midpoint            parallel lines            perpendicular            polygon            reflections            rotations            supplementary angle            translations            transversal            triangle            vertical angle</p>	<p>Investigations and ACE assignments from Connected Math</p> <p>Quizzes and tests from Connected Math and ExamView</p>	<p><u>Filling &amp; Wrapping</u>: Connected Math; Prentice Hall</p> <p><u>Arithmetic Developed Daily-Grade 5 &amp; 6</u>; GROW Publications</p>