

<u>Big Idea(s) of 3rd nine weeks</u>	<u>Concept(s) of 3rd nine weeks</u>	<u>Competencies of 3rd nine weeks</u>	<u>Essential Questions of 3rd nine weeks</u>
<p>Patterns exhibit relationships that can be extended, described, and generalized.</p> <p>Geometric relationships can be described, analyzed, and classified based on spatial reasoning and/or visualization.</p>	<p><b>Students will know:</b></p> <ul style="list-style-type: none"> <li>● Angle measures</li> <li>● Angle relationships</li> <li>● Pythagorean Theorem</li> <li>● Transformations</li> <li>● Congruence and Similarity</li> </ul>	<p><b>Students will be able to:</b></p> <p>Determine angles measures by applying different strategies. Determine angle relationships based on geometric figures and lines.</p> <p>Apply the Pythagorean Theorem to determine lengths of sides of triangles and distance. Use transformations to describe what happens to a shape when it is transformed.</p> <p>Apply congruence and similarity to determine how polygons are similar and for indirect measurement.</p>	<p>How are spatial relationships, including shape and dimension, used to draw, construct, model, and represent real situations or solve Problems?</p> <p>How can geometric properties and theorems be used to describe, model, and analyze situations?</p>

<p><b><u>Unit/Chapter/Selection of Study</u></b></p> <p><b>Geometry</b>  Measures of different types of angles  Angles of Triangles  Angles of Polygons  Pythagorean Theorem  Distance Formula'</p>	<p><b><u>Approx. # of weeks - % of time</u></b></p> <p>3 weeks</p>	<p><b><u>PA Academic Standards</u></b></p> <p><b>CC.2.3.8.A.3</b>  Understand and apply the Pythagorean Theorem to solve problems.</p>	<p><b><u>Assessment Anchors &amp; Eligible Content</u></b></p> <p><b>M08.C-G.2.1.1</b>  Identify and apply properties of rotations, reflections, and translations. Example: Angle measures are preserved in rotations, reflections, and translations.</p> <p><b>M08.C-G.2.1.2</b>  Given two congruent figures, describe a sequence of transformations that exhibits the congruence between them.</p> <p><b>M08.C-G.2.1.3</b>  Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.</p>
<p><b><u>Unit/Chapter/Selection of Study</u></b></p> <p>Transformations  Translations  Reflections  Rotations  Dilations</p>	<p><b><u>Approx. # of weeks - % of time</u></b></p> <p>2 weeks</p>	<p><b><u>PA Academic Standards</u></b></p> <p><b>CC.2.3.8.A.1</b>  Apply the concepts of volume of cylinders, cones, and spheres to solve real world and mathematical problems.</p>	<p><b><u>Assessment Anchors &amp; Eligible Content</u></b></p> <p><b>M08.C-G.3.1.1</b>  Apply formulas for the volumes of cones, cylinders, and spheres to solve real-world and mathematical problems. Formulas will be provided.</p>

<u>Unit/Chapter/Selection of Study</u>	<u>Approx. # of weeks - % of time</u>	<u>PA Academic Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
Congruence and Similarity Congruence and transformations Congruence Statements Similarity of Polygons Similar triangles Indirect Measurement Slope Area and Perimeter of Similar Polygons	4 weeks	<p data-bbox="1108 276 1281 308"><b>CC.2.3.8.A.1</b></p> <p data-bbox="976 316 1417 446">Apply the concepts of volume of cylinders, cones, and spheres to solve real world and mathematical problems.</p> <p data-bbox="1108 479 1281 511"><b>CC.2.3.8.A.3</b></p> <p data-bbox="997 511 1396 609">Understand and apply the Pythagorean Theorem to solve problems.</p>	<p data-bbox="1648 276 1837 308"><b>M08.C-G.2.1.1</b></p> <p data-bbox="1470 316 2026 446">Identify and apply properties of rotations, reflections, and translations. Example: Angle measures are preserved in rotations, reflections, and translations.</p> <p data-bbox="1648 511 1837 544"><b>M08.C-G.2.1.2</b></p> <p data-bbox="1480 552 2016 649">Given two congruent figures, describe a sequence of transformations that exhibits the congruence between them.</p> <p data-bbox="1648 714 1837 747"><b>M08.C-G.2.1.3</b></p> <p data-bbox="1470 755 2026 852">Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.</p>