

<p>CCSS.ELA-Literacy.RI.9-10.1 Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.</p> <p>*CCSS.Math.Content.HSG-SRT.4 Prove theorems about triangles. <i>Theorems include: a line parallel to one side of a triangle divides the other two proportionally, and conversely; the Pythagorean Theorem proved using triangle similarity.</i></p> <p>*CCSS.Math.Content.HSG-SRT.5 Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.</p> <p>*CCSS.Math.Content.HSG-GPE.5 Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point).</p>	<p>[11 days]</p>	<p>Pearson Chapter 7</p>
<p>CCSS.ELA-Literacy.RI.9-10.1 Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.</p> <p>*CCSS.Math.Content.HSG-SRT.4 Prove theorems about triangles. <i>Theorems include: a line parallel to one side of a triangle divides the other two proportionally, and conversely; the Pythagorean Theorem proved using triangle similarity.</i></p> <p>*CCSS.Math.Content.HSG-SRT.7 Explain and use the relationship between the sine and cosine of complementary angles.</p> <p>*CCSS.Math.Content.HSG-SRT.8 Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.</p> <p>*CCSS.Math.Content.HSG-MG.1 Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).</p>	<p>[10 days]</p>	<p>Pearson Chapter 8: Do No Teach 8-5 & 8-6</p>

Unit 4: Relationships Within Triangles

Unit 5: Polygons & Quadrilaterals

Unit 6: Similarity

Unit 7: Right Triangles & Trigonometry

Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Mathematical Practices:

Learning Statements:

- I can use properties of midsegments to solve problems.
 - I can use properties of perpendicular bisectors and angle bisectors.
 - I can identify properties of perpendicular bisectors and angle bisectors.
 - I can identify properties of medians and altitudes of a triangle.
 - I can find the sum of the measures of the interior angles of a polygon.
 - I can find the sum of the measures of the exterior angles of a polygon.
 - I can use relationships among sides and angles of parallelograms.
 - I can use relationships among diagonals of parallelograms.
 - I can determine whether a quadrilateral is a parallelogram.
 - I can define and classify special types of parallelograms.
 - I can use properties of diagonals of rhombuses and rectangles.
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- I can determine whether a parallelogram is a rhombus or rectangle.
 - I can verify and use properties of trapezoids and kites.
 - I can classify polygons in the coordinate plane.
 - I can name coordinates of special figures by using their properties.
 - I can prove theorems using figures in the coordinate plane.
 - I can write ratios and solve proportions.
 - I can identify and apply similar polygons.
 - I can use the AA ~ Postulate and the SAS ~ and SSS ~ Theorems.
 - I can use similarity to find indirect measurements.
 - I can find and use relationships in similar right triangles.
 - I can use the Side-Splitter Theorem and the Triangle-Angle-Bisector Theorem to solve problems.
 - I can use the Pythagorean Theorem and its converse.
 - I can use the properties of 45°-45°-90° and 30°-60°-90° triangles.
 - I can use the sine, cosine, and tangent ratios to determine side lengths and angle measurements in right triangles.
 - I can use angles of elevation and depression to solve problems.
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