

Week of 1/21/16- 1/22/16 7th Grade Math

<p>Topic:</p> <ul style="list-style-type: none"> • Geometry: <ul style="list-style-type: none"> ○ Triangles ○ Angles ○ Scale Drawings 	<p>Standards:</p> <ul style="list-style-type: none"> • 7.G.1: Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale. • 7.G.2: Draw geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle. • 7.G.5: Use facts about supplementary, complementary, adjacent, and vertical angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.
<p>Lesson Essential Question:</p> <ul style="list-style-type: none"> • How can the properties of angles be used to solve multi-step problems? • How can you use scale drawings to solve real world problems involving geometric figures? 	<p>Students will be able to....</p> <ul style="list-style-type: none"> • Construct triangles from three measures of angles and from three measures of sides. • State the relationships between supplementary, complementary, vertical, and adjacent angles. • Develop equations for an unknown angle in a figure. • Solve simple equations for an unknown angle in a figure. • Reproduce a scale drawing at a different scale.
	<p>Students will know...</p> <ul style="list-style-type: none"> • The triangle inequality theorem and triangle sum theory • The properties of supplementary, complementary, vertical, and adjacent angles. • How to draw a scale drawing using scale factor and similar figures.
<p>Activating Strategy: BrainPOP videos</p>	<p>Vocabulary:</p> <ul style="list-style-type: none"> • Supplementary, complementary, vertical angles, adjacent angles, corresponding angles, alternate interior angles, alternate exterior angles, transversal, parallel, perpendicular, scalene, isosceles, equilateral, right, acute, obtuse, scale, scale drawing, scale factor, similar figures

<p>Lesson Instruction</p>	
<p>Learning Activity/Assignment 1:</p> <ul style="list-style-type: none"> • Review practice- triangles and angles • Graded SchoolNet classwork activity in pairs- triangles and angles <p>Assessment Prompt for LA 1:</p> <ul style="list-style-type: none"> • Analysis of SchoolNet data 	<p>Graphic Organizer:</p> <ul style="list-style-type: none"> • Foldable – Different types of Angles (Vertical, Adjacent, Supplementary, Complementary) <p>Assignment:</p> <ul style="list-style-type: none"> • SchoolNet Classwork • Practice Problem Activity
<p>Learning Activity/Assignment 2:</p> <ul style="list-style-type: none"> • BrainPOP-Similar Figures • Similar Figures Guided Notes • Similar Figures/Scale Drawing Practice Activities <p>Assessment Prompt for LA 2:</p> <ul style="list-style-type: none"> • Exit Ticket 	

<p>Summarizing Strategy:</p> <ul style="list-style-type: none"> • Respond to Essential Question with partner • One sentence summary independently
--

