

**Week of 1/4/16- 1/8/16      7<sup>th</sup> Grade Math**

<p><b>Topic:</b></p> <ul style="list-style-type: none"> <li>• Ratios &amp; Proportions: Percents</li> <li>• Scale Drawings</li> </ul>	<p><b>Standards:</b></p> <ul style="list-style-type: none"> <li>• 7.RP.3 Use proportional relationships to solve multistep ratio and percent problems.</li> <li>• 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.</li> </ul>
<p><b>Lesson Essential Question:</b></p> <ul style="list-style-type: none"> <li>• How can proportional relationships be used to solve percent and ratio problems?</li> <li>• How can you use scale drawings to solve real world problems involving geometric figures?</li> </ul>	<p><b>Students will be able to....</b></p> <ul style="list-style-type: none"> <li>• Develop and evaluate a proportional relationship to solve multi-step ratio problems.</li> <li>• Develop and evaluate a proportional relationship to solve multi-step percent problems.</li> <li>• Analyze the reasonableness of an answer.</li> <li>• Solve problems involving scale drawings of geometric figures.</li> <li>• Compute the actual length and area of a geometric figure from a scale drawing.</li> </ul>
<p><b>Activating Strategy:</b> BrainPOP video, Scale Ella video</p>	<p><b>Vocabulary:</b></p> <ul style="list-style-type: none"> <li>• Percent, simple interest, (interest, principal, rate, time) tax, markup, discount/markdown, commission, tip/gratuuity, fees, percent increase/decrease, percent error, cross product</li> <li>• Scale, scale drawing, scale factor, polygon, dimensions, proportional, similar figures</li> </ul>

<b>Lesson Instruction</b>	
<p><b>Learning Activity 1:</b></p> <ul style="list-style-type: none"> <li>• Review percent word problems and simple interest</li> <li>• Percent Error Practice Word Problems EOG NC Ready pg 76</li> <li>• Math Playground: Math at the Mall 2 Computer Game</li> </ul> <p><b>Assessment Prompt for LA 1:</b></p> <ul style="list-style-type: none"> <li>• Analysis of performance playing Math Playground: Math at the Mall 2</li> </ul>	<p><b>Graphic Organizer:</b></p> <ul style="list-style-type: none"> <li>• Foldable – Different types of Triangles (Acute, Obtuse, Right, Equilateral, Isosceles, and Scale)</li> </ul>
<p><b>Learning Activity 2:</b></p> <ul style="list-style-type: none"> <li>• Scale Ella video and activity</li> <li>• Scale Factor word problem practice EOG NC Ready pg 168-169</li> </ul> <p><b>Assessment Prompt for LA 2:</b></p> <ul style="list-style-type: none"> <li>• Think-Pair-Write</li> </ul>	
<p><b>Learning Activity 3:</b></p> <ul style="list-style-type: none"> <li>• Sizing up the Garage Instructional Task</li> </ul> <p><b>Assessment Prompt for LA 3:</b></p> <ul style="list-style-type: none"> <li>• Project Self-Reflection and Grade</li> </ul>	<p><b>Assignment:</b></p> <ul style="list-style-type: none"> <li>• Spiral Review Practice Problems</li> </ul>
<p><b>Learning Activity 4:</b></p> <ul style="list-style-type: none"> <li>• Percent, Simple Interest, and Scale Factor Test</li> </ul> <p><b>Assessment Prompt for LA 4:</b></p> <ul style="list-style-type: none"> <li>• Test Scores</li> </ul>	

**Learning Activity 5:**

- Graphic Organizer/Foldable – Different Types of Triangles
- Straw Activity- Determining the Properties of Triangles

**Assessment Prompt for LA 4:**

- Exit Ticket

**Summarizing Strategy:**

- Respond to Essential Question with partner
- One sentence summary independently