

<p><b>Topic:</b></p> <ul style="list-style-type: none"> <li>Review for Benchmark</li> </ul>	<p><b>Standards:</b></p> <ul style="list-style-type: none"> <li>7. NS. 1 Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line.</li> <li>7. NS. 2: Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.</li> <li>7. EE. 4: Use variables to represent quantities in a real world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities .</li> <li>7. RP. 3: Use proportional relationships to solve multistep ratio and percent problems.</li> <li>7.G.4 Know the formulas for area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.</li> </ul>
<p><b>Lesson Essential Question:</b></p> <ul style="list-style-type: none"> <li>How can the previous learned properties of multiplication and division be extended to multiplication and division of rational numbers?</li> <li>How are the properties of operations used to solve multi-step mathematical and real world problems?</li> <li>How can proportional relationships be used to solve percent and ratio problems?</li> <li>What is the relationship between the area and circumference of a circle and how can this be used to solve problems?</li> </ul>	<p><b>Students will be able to....</b></p> <ul style="list-style-type: none"> <li>Decide which properties to use in order to evaluate an addition or subtraction problem involving rational numbers.</li> <li>Relate the properties of multiplication of fractions to the multiplication of rational numbers.</li> <li>Solve multi-step mathematical and real world inequalities and equations with positive and negative numbers.</li> <li>Use the formulas for circumference and area of a circle to solve problems.</li> </ul> <p><b>Students will know...</b></p> <ul style="list-style-type: none"> <li>The properties of addition, subtraction, multiplication, and division.</li> <li>The steps for solving equations and inequalities.</li> <li>The rules for multiplying and dividing by positives and negatives.</li> <li>The relationship between area and circumference of a circle.</li> </ul>
<p><b>Activating Strategy:</b></p> <ul style="list-style-type: none"> <li>BrainPOP videos             <ul style="list-style-type: none"> <li>Circle</li> <li>Pi</li> <li>Word Problems</li> <li>Similar Figures</li> </ul> </li> </ul>	<p><b>Vocabulary:</b></p> <ul style="list-style-type: none"> <li>Radius, diameter, circumference, area, equation, expression, rational, inequality, proportion, simple interest,</li> </ul>

<p><b>Lesson Instruction</b></p>	
<p><b>Learning Activity/Assignment 1: Day 1</b></p> <ul style="list-style-type: none"> <li>Semester 1 Math Review on SchoolNet- Graded Classwork</li> </ul> <p><b>Assessment Prompt for LA 1:</b></p> <ul style="list-style-type: none"> <li>Analysis of SchoolNet Data</li> </ul>	<p><b>Graphic Organizer:</b></p> <ul style="list-style-type: none"> <li>Foldable – Properties of a circle (radius, diameter, chord, arc)</li> </ul>
<p><b>Learning Activity/Assignment 2: Day 2</b></p> <ul style="list-style-type: none"> <li>BrainPOP-review videos</li> </ul>	

<ul style="list-style-type: none"> <li>• Debrief Semester 1 Math Review on SchoolNet</li> <li>• Operations with fractions and decimals without a calculator activity</li> </ul> <p><b>Assessment Prompt for LA 2:</b></p> <ul style="list-style-type: none"> <li>• BrainPOP interactive quiz</li> </ul>	
<p><b>Learning Activity/Assignment 3: Day 3</b></p> <ul style="list-style-type: none"> <li>• Quarter 2 Benchmark Exam</li> </ul> <p><b>Assessment Prompt for LA 3:</b></p> <ul style="list-style-type: none"> <li>• Analysis of Benchmark Data</li> </ul>	<p><b>Assignment:</b></p> <ul style="list-style-type: none"> <li>• Spiral Review Practice Problems</li> </ul>
<p><b>Learning Activity/Assignment 4: Day 4 and 5</b></p> <ul style="list-style-type: none"> <li>• Debrief Quarter 2 Benchmark Data</li> <li>• BrainPOP- review videos</li> </ul> <p><b>Assessment Prompt for LA 4:</b></p> <ul style="list-style-type: none"> <li>• Class Discussion</li> </ul>	
<p><b>Summarizing Strategy:</b></p>	
<ul style="list-style-type: none"> <li>• Respond to Essential Question with partner</li> <li>• One sentence summary independently</li> </ul>	