

## Grade 6 – Mathematics Curriculum

Click [here](#) for full text of Alaska Grade 6 Standards

Instructional Focus	Grade Level Clusters			
Connecting ratio and rate to whole number multiplication and division, and using concepts of ratio and rate to solve problems.	<ul style="list-style-type: none"> <li>• Understand ratio concepts and use ratio reasoning to solve problems.</li> <li>• Apply and extend previous understandings of multiplication and division to divide fractions by fractions.</li> <li>• Compute fluently with multi-digit numbers and find common factors and multiples.</li> <li>• Apply and extend previous understandings of numbers to the system of rational numbers.</li> <li>• Apply and extend previous understandings of arithmetic to algebraic expressions.</li> <li>• Reason about and solve one-variable equations and inequalities.</li> <li>• Represent and analyze quantitative relationships between dependent and independent variables.</li> <li>• Solve real-world and mathematical problems involving area, surface area, and volume.</li> <li>• Develop understanding of statistical variability.</li> <li>• Summarize and describe distribution.</li> </ul>			
Completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers.				
Writing, interpreting, and using expressions and equations.				
Developing understanding of statistical thinking.				
<p><b>Mathematical Practices Standards:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <ol style="list-style-type: none"> <li>1. Make sense of problems and persevere in solving them</li> <li>2. Reason abstractly and quantitatively</li> <li>3. Construct viable arguments and critique reasoning of others</li> <li>4. Model with mathematics</li> </ol> </td> <td style="width: 50%; border: none;"> <ol style="list-style-type: none"> <li>5. Use appropriate tools strategically</li> <li>6. Attend to precision</li> <li>7. Look for and make use of structure</li> <li>8. Look for and express regularity in repeated reasoning</li> </ol> </td> </tr> </table>			<ol style="list-style-type: none"> <li>1. Make sense of problems and persevere in solving them</li> <li>2. Reason abstractly and quantitatively</li> <li>3. Construct viable arguments and critique reasoning of others</li> <li>4. Model with mathematics</li> </ol>	<ol style="list-style-type: none"> <li>5. Use appropriate tools strategically</li> <li>6. Attend to precision</li> <li>7. Look for and make use of structure</li> <li>8. Look for and express regularity in repeated reasoning</li> </ol>
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<p><b>District Instructional Materials (Core)</b> Pearson – <i>enVisionmath 2.0</i>, © 2016</p>	<p><b>Pacing Guide</b> Trimester 1: Topics 1-3 Trimester 2: Topics 4-5 Trimester 3: Topics 6-8</p>	<p><b>AK Standards to be Supplemented</b></p> <p style="text-align: center;">6.SP.6 6.SP.7</p>		
<p><b>Cumulative/Benchmark Assessments</b></p> <ul style="list-style-type: none"> <li>• Administer electronically as prescribed by <i>enVisionmath 2.0</i> Teacher’s Edition</li> <li>• Submit data (Class Results, Class Mastery) to building administrator</li> </ul>		<p><b>Required Fluency:</b> 6.NS.2 – Multi-digit division 6.NS.3 – Multi-digit decimal operations.</p>		