

## Grade 4 – Mathematics Curriculum

Click [here](#) for full text of Alaska Grade 4 Standards

Instructional Focus	Grade Level Clusters			
Developing understanding and fluency with multiplication.	<ul style="list-style-type: none"> <li>• Use the four operations with whole numbers to solve problems.</li> <li>• Gain familiarity with factors and multiples.</li> <li>• Generate and analyze patterns.</li> <li>• Generalize place value understanding for multi-digit whole numbers.</li> <li>• Use place value understanding and properties of operations to perform multi-digit arithmetic.</li> <li>• Extend understanding of fraction equivalence and ordering.</li> <li>• Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.</li> <li>• Understand decimal notation for fractions, and compare decimal fractions.</li> <li>• Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit, and involving time.</li> <li>• Represent and interpret data.</li> <li>• Understand concepts of angle and measure angles.</li> <li>• Draw and identify lines and angles, and classify shapes by properties of their lines and angles.</li> </ul>			
Developing and understanding of fraction equivalence, addition and subtraction of fractions with like denominators.				
Understanding that geometric figures can be analyzed and classified based on their properties.				
<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>Direct Instructional Materials (Core)</b> Pearson – <i>enVisionmath 2.0</i>, © 2016</p>	<p><b>Pacing Guide</b> Trimester 1: Topics 1-5 Trimester 2: Topics 6-10 Trimester 3: Topics 11-16</p> <p>Click <a href="#">here</a> for interactive guide.</p>	<p><b>AK Standards to be Supplemented</b></p> <p>4.OA.6 4.MD.4 4.MD.6</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> 4.NBT.4 – Add/subtract up to 1,000,000</p>		