

# Wyoming State Standards Correlated to Merit Software Mathematics Programs

## Basic

<p>Students use numbers, number sense, and number relationships in a problem-solving situation.</p>	<ul style="list-style-type: none"> <li>A. Students use the concept of place value to read and write whole numbers up to 999,999 in words, standard, and expanded form.</li> <li>B. Students compare and order whole numbers.</li> <li>C. Students demonstrate computational fluency with basic facts (add to 20, subtract from 20, multiply by 0-10).</li> <li>D. Students add and subtract to thousands and multiply hundreds by a single digit.</li> <li>E. Students explain their choice of problem-solving strategies and justify their results when performing whole number operations in problem-solving situations.</li> <li>F. Students recognize commonly used fractions (halves, thirds, fourths) as parts of a whole using an area model.</li> </ul>	<p>Word Problem Shape-Up</p> <p>Fraction Shape-Up</p>
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### **Intermediate**

<p>Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation.</p>	<ol style="list-style-type: none"><li>1. Students translate word phrases, which involve the four basic operations to mathematical expressions.</li><li>2. Students solve one- and two- step linear equations each with an integer coefficient and integer solutions.</li><li>3. Students evaluate algebraic expressions and formulas given integer values for variables.</li><li>4. Using simple linear equations, students create a table, and graph the solutions on the coordinate system.</li></ol>	<p>Word Problem Shape-Up</p> <p>Pre-Algebra Shape-Up</p> <p>Basic Algebra Shape-Up</p>
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### **Advanced**

<p>Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation.</p>	<ol style="list-style-type: none"><li>1. Students use algebraic concepts, symbols, and skills to represent and solve real-world problems.</li><li>2. Students write, model, and evaluate expressions, functions, equations, and inequalities.</li><li>3. Students graph linear equations and interpret the results in solving algebraic problems.</li><li>4. Students solve, graph, or interpret systems of linear equations.</li><li>5. Students connect algebra with other mathematical topics.</li></ol>	<p>Word Problem Shape-Up</p> <p>Basic Algebra Shape-Up</p>
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