

<b>Essential Understandings</b>	<ul style="list-style-type: none"> <li>Solving linear functions is one of the major skills necessary to be successful in Algebra 1.</li> </ul>
<b>Essential Questions</b>	<ul style="list-style-type: none"> <li>What is a solution of an equation?</li> <li>How do you solve complex algebraic equations?</li> <li>How do you solve and use formulas?</li> <li>How do you use ratios and rates to solve real life problems?</li> <li>How do you solve percentage problems?</li> <li>How do you solve absolute-value equations?</li> </ul>
<b>Essential Knowledge</b>	<ul style="list-style-type: none"> <li>Solutions of equations are what make equations true.</li> <li>Ratios can be written in three different ways.</li> <li>Ratios and rates can be used to solve real life problems.</li> <li>The definition of percentage is parts per hundred.</li> <li>Absolute value equations can be solved.</li> </ul>
<b>Vocabulary</b>	<ul style="list-style-type: none"> <li><u>Terms:</u> <ul style="list-style-type: none"> <li>equation, linear equations, formulas, ratios, rates, percent, percent equations, absolute value equations.</li> </ul> </li> </ul>
<b>Essential Skills</b>	<ul style="list-style-type: none"> <li>Identify solutions of equations.</li> <li>Solve algebraic equations.</li> <li>Solve and use formulas.</li> <li>Use ratios and rates to solve real life problems.</li> <li>Solve percentage problems.</li> <li>Solve absolute-value equations.</li> </ul>
<b>Related Maine Learning Results</b>	<p><u>Mathematics</u></p> <p>B. Data  Measurement and Approximation  B1.Students understand the relationship between precision and accuracy.  a. Express answers to a reasonable degree of precision in the context of a given problem.</p> <p>D. Algebra  Symbols and Expressions  D1.Students understand and use polynomials and expressions with rational exponents.  a. Simplify expressions including those with rational numbers.</p> <p>Equations and Inequalities  D2.Students solve families of equations and inequalities.  d. Solve absolute value equations and inequalities and interpret the results.</p>
<b>Sample Lessons And Activities</b>	<ul style="list-style-type: none"> <li>Students will orally respond to questions.</li> <li>Students will utilize worksheets and in their notes to demonstrate individual understanding of the concepts.</li> </ul>

<b>Sample Classroom Assessment Methods</b>	<ul style="list-style-type: none"><li>▪ Quizzes</li><li>▪ Take-home worksheets</li><li>▪ Tests</li></ul>
<b>Sample Resources</b>	<ul style="list-style-type: none"><li>▪ <u>Publications:</u><ul style="list-style-type: none"><li>○ <u>Algebra</u> -Foerster</li></ul></li></ul>