Algebra I Honors
Unit 3: Solving Linear Functions

Essential Understandings	▪ Solving linear functions is one of the major skills necessary to be successful in Algebra 1.
Essential Questions	▪ What is a solution of an equation? ▪ How do you solve complex algebraic equations? ▪ How do you solve and use formulas? ▪ How do you use ratios and rates to solve real life problems? ▪ How do you solve percentage problems? ▪ How do you solve absolute-value equations?
Essential Knowledge	▪ Solutions of equations are what make equations true. ▪ Ratios can be written in three different ways. ▪ Ratios and rates can be used to solve real life problems. ▪ The definition of percentage is parts per hundred. ▪ Absolute value equations can be solved.
Vocabulary	▪ Terms: o Equation, linear equations, formulas, ratios, rates, percent, percent equations, absolute value equations. o Identity, literal equations, proportions, cross products.
Essential Skills	▪ Identify solutions of equations. ▪ Solve algebraic equations. ▪ Solve and use formulas. ▪ Use ratios and rates to solve real life problems. ▪ Solve percentage problems. ▪ Solve absolute-value equations. ▪ Solve and check complex equations using technology.
Related Maine Learning Results	B. Measurement and Approximation 1a D. Symbols and Expressions 1a D. Equations and Inequalities 2d
Sample Lessons And Activities	▪ Students will orally respond to questions. ▪ Students will utilize worksheets and in their notes to demonstrate individual understanding of the concepts.
Sample Classroom Assessment Methods	▪ Quizzes, take-home worksheets, and tests.
Sample Resources	▪ Publications: o Algebra 1 Textbook (Larson) ▪ Other: o Graphing calculators.
Technology Link	▪ http://www.brunswick.k12.me.us/curriculum