Algebra I Honors
Unit 6: Solving and Graphing Linear Inequalities

Essential Understandings	▪ Solving and graphing linear inequalities is a very important Algebraic skill.
Essential Questions	▪ How do you solve inequalities using addition and subtraction? ▪ How do you solve inequalities using multiplication and division? ▪ How do you solve multi-step inequalities? ▪ How do you solve inequalities with "and" or "or."? ▪ How do you graph linear inequalities with 2 variables? ▪ How do you solve and graph absolute value functions?
Essential Knowledge	▪ Inequalities will be solved by addition and subtraction. ▪ Inequalities will be solved by multiplying and dividing. ▪ Multi-step equalities will be solved. ▪ Inequalities involving "and" and "or" will be solved. ▪ Linear inequalities with 2 variables will be graphed. ▪ Absolute value functions will be graphed. ▪ Absolute value equations will be solved.
Vocabulary	▪ <u>Terms</u>: o Single step inequalities, multi-step inequalities, multiplication and division property of inequalities, graph of inequalities, compound inequalities, "AND" inequalities, "OR" inequalities. o Absolute value functions, linear inequalities with 2 variables.
Essential Skills	▪ Solve inequalities using addition and subtraction. ▪ Solve inequalities using multiplication and division. ▪ Solve multi-step inequalities. ▪ Solve inequalities with "and" or "or." ▪ Graph and interpret linear inequalities with 2 variables using technology. ▪ Graph and interpret absolute value functions using technology.
Related Maine Learning Results	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	▪ <u>Publications:</u> o Algebra 1 Textbook (Larson) ▪ <u>Other:</u> o Graphing calculators.
Technology Link	▪ http://www.brunswick.k12.me.us/curriculum