

Algebra I Honors

Unit 7: Systems of Equations and Inequalities

Essential Understandings	<ul style="list-style-type: none"> ▪ Solving systems of equations and inequalities is a very important Algebraic skill.
Essential Questions	<ul style="list-style-type: none"> ▪ How do you solve systems by graphing? ▪ How do you solve systems by substitution? ▪ How do you solve systems by linear combinations? ▪ How do you solve special types of linear systems? ▪ How do you solve systems of inequalities?
Essential Knowledge	<ul style="list-style-type: none"> ▪ Systems will be solved by graphing. ▪ Systems will be solved using substitution. ▪ Systems will be solved by linear combinations. ▪ Special types of linear systems will be solved. ▪ Systems of inequalities will be solved.
Vocabulary	<ul style="list-style-type: none"> ▪ <u>Terms:</u> <ul style="list-style-type: none"> ○ Systems of linear equations, solution of a linear system, point of intersection, graph-and-check method, substitution method, linear combination method, no solution systems, identity (infinitely many) solutions
Essential Skills	<ul style="list-style-type: none"> ▪ Solve systems by graphing. ▪ Solve systems by substitution. ▪ Solve systems by linear combinations. ▪ Solve special types of linear systems. ▪ Solve systems of inequalities. ▪ Solve, graph and interpret linear systems and linear inequalities systems using technology.
Related Maine Learning Results	<p>D. Symbols and Expressions 1a D. Equations and Inequalities 2af</p>
Sample Lessons And Activities	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ Quizzes, take-home worksheets, and tests.
Sample Resources	<ul style="list-style-type: none"> ▪ <u>Publications:</u> <ul style="list-style-type: none"> ○ Algebra 1 Textbook (Larson) ▪ <u>Other:</u> <ul style="list-style-type: none"> ○ Graphing calculators.
Technology Link	<ul style="list-style-type: none"> ▪ http://www.brunswick.k12.me.us/curriculum