# Algebra 1B Unit 03: Systems of Equations and Inequalities

Content Area:	Math
Course(s):	Algebra I B
Time Period:	Semester 1
Length:	5 cycles
Status:	Published

## **Unit Introduction**

Standards	
MA.A-REI.C.6	Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.
MA.A-REI.D.12	Graph the solutions to a linear inequality in two variables as a half plane (excluding the boundary in the case of a strict inequality), and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.

### **Essential Questions**

- Can a system of equations model real-world situations?
- How can you solve a system of equations or inequalities?

#### Content

- Application of Linear Systems
- Linear Inequalities
- Solving Systems by Elimination
- Solving Systems by Graphing
- Solving Systems by Substitution
- Systems of Linear Inequalities

#### Skills

- Application problems using systems of equations
- Solve system of Inequalities
- Solving a linear system by elimination
- Solving a linear system by graphing
- Solving linear system by substitution

- Use graphing calculators and technology where appropriate
- Use relevant vocabulary, notations, and symbols when appropriate