

# **Algebra 1 – Unit 4: Systems of Equations and Inequalities**

## **Expectations, Essential Questions, Enduring Understandings, Indicators and Vocabulary**

### **Expectation**

1.2 model and interpret real-world situations using the language of mathematics and appropriate technology.

### **Essential Questions**

What methods can be used to solve systems of equations and inequalities?

How are systems of linear equations and inequalities useful?

### **Enduring Understanding**

Systems of equations and/or inequalities are used to model and solve real-world problems involving two or more variables.

### **Indicators**

1.2.2. solve linear inequalities and describe the solutions using numbers, symbols, and graphs

1.2.2.a graph an inequality, write and/or solve an inequality, or interpret an inequality in the context of a problem.

1.2.3 solve and describe using numbers, symbols, and/or graphs if and where two straight lines intersect.

1.2.3.a write a system of equations for a real-world situation that is expressed verbally, numerically, or graphically.

1.2.3.b describe the graph of a system of linear relationships.

### **Vocabulary**

linear combination

substitution

system of equations

system of inequalities