Bridge to Algebra 2 Unit 3: Expectations, Essential Questions, Enduring Understandings, and Vocabulary

### Expectations

- 1.1 The student will model, analyze, and apply linear functions.
- 1.2 The student will model, analyze, and apply systems of linear equations and inequalities in two variables.

#### **Essential Questions**

Why are linear inequalities useful?

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

How are systems of linear equations and inequalities useful?

# **Enduring Understandings**

The characteristics of linear inequalities and their representations are useful in solving real-world problems.

Systems of linear equations and/or inequalities are used to model and solve real-world problems involving 2 variables.

### Indicators

1.1.B.1	solve real-world problems using linear equations and inequalities.
1.2.B.1	model a real-world problem using a system of equations.
1.2.B.2	solve a system of equations numerically, algebraically, graphically, and using matrices.
1.2.B.3	perform operations on matrices.
1.2.B.4	represent a system of inequalities numerically, algebraically, and graphically.
1.2.B.5	solve a system of linear inequalities graphically.

## Vocabulary

break-even point consistent corner point dimension half-plane input output vertices