

Algebra II Curriculum Map  
2013-2014

**Focus Topic 6 – Systems of Linear Inequalities**  
**(3 Weeks)**

**D.2.a** – Graph a system of linear inequalities in two variables with and without technology to find the solution set to the system.

**Learning Target(s):**

- I can graph a system of linear inequalities in two variables without technology to find the solution set to the system.
- I can graph a system of linear inequalities in two variables with technology to find the solution set to the system.

**D.2.b** – Solve linear programming problems by finding maximum and minimum values of a function over a region defined by linear inequalities.

**Learning Target(s):**

- I can solve linear programming problems by finding maximum values of a function over a region defined by linear inequalities.
- I can solve linear programming problems by finding minimum values of a function over a region defined by linear inequalities.

**Vocabulary:** linear programming, maximum, minimum, region, solution set, system of inequalities

**Instructional Resources:**

- Formative Assessment Lessons for Mathematics: <http://map.mathshell.org/materials/lessons.php>
- Formative Assessment Tasks for Mathematics: <http://map.mathshell.org/materials/tasks.php>
- Illustrative Mathematics: <http://www.illustrativemathematics.org/standards/k8>
- NCTM Illuminations: <http://illuminations.nctm.org/>
- PARCC: <http://www.parcconline.org/mcf/mathematics/parcc-model-content-frameworks-browser>
- Inside Mathematics: <http://insidemathematics.org/index.php/mathematical-content-standards>
- New York State: <http://www.engageny.org/mathematics>
- Lessons from *Algebra 2 Connections*: 5.2.1 – 5.2.4 (D.2.a, D.2.b)
- Checkpoints from *Algebra 2 Connections*: Number 12 (D.2.a)

**Assessment Notes:**

- The Focus Topic will have 3 multiple choice questions and 1 extended response on the proficiency assessment.