### Goal

Your goal is to design a map that includes several different kinds of lines, angles and shapes.

### Role

You are an intern at Hasbro, a company that designs board games.

#### Audience

The audience is your immediate supervisor and a group of volunteer testers between the ages of 8 and 15.

## Situation

You have been asked to create a map of a made up place for a board game. Upon completion of this project you will present your map to the class as if you are presenting your map to your supervisor, and the volunteer testers.

#### **Product Performance and Purpose**

You need to draw a template of the map for the board game. Your map must include the following:

- 1. A title
- 2. Two sets of streets that are parallel
- 3. Two sets of streets that are perpendicular
- 4. One street that intersects another street to form an obtuse angle
- 5. One street that intersects another to form an acute angle
- 6. One street that is a line segment
- 7. One street that is a line
- 8. One street that is a ray
- 9. A minimum of five local attractions (such as an ice cream parlor, swimming pool,
- school, gas station, movie theater, etc.)

10. A compass rose

11. You are also to write out five different sets of directions from one place to another. Each set of directions must have one of these terms: parallel, intersecting or perpendicular. These directions should be able to get your volunteer testers from one place to another on your map without getting lost!

## Standards and Criteria for Success:

## EQ: How can we show our understanding of line segments, angles, and shapes?

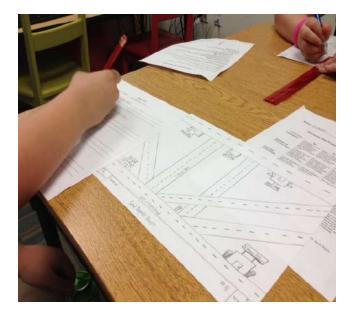
**MCC3.G.1** Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.

#### Your map needs to include:

- \* Accurate representations of each of the requirements listed above
- \* Complete directions with correct use of terminology

and attractive design

\* Neat



**Geometry Map Project checklist** 

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- 9. A minimum of five local attractions (such as an ice cream parlor, swimming pool, school, gas station, movie theater, etc.)
  - 10. A compass rose
    - \_\_11. Map is attractive in terms of design, layout and neatness
    - 12. Name on project

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 $(12 - 13 \sqrt{s} = 3; 11 - 8 \sqrt{s} = 2; 7 - 0 \sqrt{s} = 1)$ 

# **PROJECT DUE MARCH 14, 2014**