

## Grade 2: Creating a Park Map Design Challenge

Name: \_\_\_\_\_

Group: \_\_\_\_\_

**Ask (define the PROBLEM):** *You are a civil engineer and have been asked to create a community park in a town. The town would like:*

- ☐ a pond and a stream that connects to the pond
- ☐ 2 hills
- ☐ 2 roads -one road that runs north to south, and another road that runs from east to west. These roads also need to connect. An **Ozobot** needs to be able to travel on these roads.
- ☐ 1 parking area for Ozobot to end his journey through the park

**Imagine (brainstorm SOLUTIONS):** Use the area below to brainstorm how your map may look. Include a **KEY** and a **COMPASS**.

**Plan (THINK, SKETCH, LABEL): As a group...**What materials will you use to represent each part of your park? Make a list and draw another illustration of what materials you will use where. How will you design your roads so Ozobot can read what you want it to do?

- ☐ Pond and a Stream
- ☐ Two hills
- ☐ Two roads: 1 road running N to S; 1 road running E to W
- ☐ Parking lot

<p><b>Materials:</b></p> <p>1. box</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p> <p>7. _____</p>	<p><b>Illustration of park with labeled materials</b> (include a <b>KEY</b> and <b>COMPASS</b>).</p>
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<p><b>Improve (adjust your design to make it better):</b> What things can you improve to make the design of your park better?</p>
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