Ozobot Lesson Plan

5th	**Topic**: Landform Navigation

Standard: S5E1. Obtain, evaluate, and communicate information to identify physical and chemical changes.

Essential Question: Can you program an Ozobot around landforms?

Vocabulary:	**Materials**:
Calibrate Landform	Ozobots Materials to draw landscape: markers or colored pencils and paper Laptops or I-pads for Ozoblockly website

Instruction:

1. Read What is a Landform? by Rebecca Rissman. Lead students in a discussion about what qualifies a landform.
2. Group students.
3. Students will research various landforms.
4. Students will plan and create a landscape of multiple landformations.
5. Students will program the Ozobot using www.ozoblockly.com to navigate the landforms.
    a. The program must include at least 4 movements, two changes for the lights, one time restraint, and include one loop.
6. Teacher monitors as students work.

Summarizer/Assessment:	**Teacher Notes**
Teacher observation	This activity could be used to help students identify and practice the 4 Cs: communication, collaboration, creativity, and critical thinking. Before beginning the activity, lead students in a discussion on one or all 4 topics. When activity is finished, ask students which of the 4 Cs did they exemplify best. Was there a C that needs more work? How can we continue to improve in this area?

5TH GRADE: NAVIGATE AN OZOBOT AROUND VARIOUS LANDFORMS

Standards:

- **EQ:** Can you program an Ozobot around Landforms?
- **Hook:** Investigate various landforms and how the Ozobot operates.
- Book: *What is a Landform?* By Rebecca Rissman
- **Materials:** Laptop
- **Resources:** www.ozoblokly.com
- Calibrate Ozobot before coding the path for your landforms.
- **Lesson:** Students will research various landforms, create a landscape of multiple landformations, and program the Ozobot to navigate the landforms.

Criteria:

- In a collaborative group, create a landscape that includes a minimum of four (4) different landforms
- Utilizing www.ozoblokly.com, program your Ozobot to navigate your landscape
- Your program must include at least four movements, two changes for the lights, one time restraint, and include one loop

Differentiation:

- Provide I-pad
- Step by step instructions on the board
- Students can collaborate
- When complete, explore www.ozoblokly.com