

**LESSON: Photographing a Math Problem****GRADE: 2****OBJECTIVES:****Operations & Algebraic Thinking****Work with equal groups of objects to gain foundations for multiplication.**

- **2.OA.C.3** Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.

**MATERIALS & RESOURCES:**

- Digital or disposable cameras
- Paper
- Pencils
- Glue sticks
- An outdoor area for photographing the trash they collected

**PRESENTATION:**

Explain that today we'll be making a math problem with items they collected during "Beginning Playground Pickup." Remind the kids about the categories they sorted their trash into, i.e. what shapes to look for (i.e. glass, plastic, paper, food, etc.) Ask students to be thinking of a math problem related to showing even and odd numbers (for example; by pairing objects or counting them by 2s). Demonstrate how to use the camera to take a picture of the items that will be in their math problem.

**DIRECTIONS:**

1. Have students work with partners or in a small group to share cameras. If possible, have an extra adult with each group. Students will photograph examples of their trash items, keeping in mind how many they need for their math problem.
2. Once inside, have them write their problem on a large sheet of paper.
3. Print photos, and have students glue them to their large paper to illustrate their math problem.
4. Have students share their completed work with class.

**TIME:****45-60 min.**

## **PROCESSING THROUGH THE SIX PILLARS:**

### **WHAT?**

- Did your team work well together?

### **SO WHAT?**

- What responsibilities did everyone have to make this work?
- Did everyone have a chance to help on the math problem?

### **NOW WHAT?**

- How does sharing the responsibility help to solve the problem?