

LESSON: Photographing a Math Problem**Grade Level: 1****OBJECTIVES:**

Students will:

- Design a math problem
- Photograph shapes from the outdoors to illustrate their math problem
- Become more aware of shapes in nature and our surroundings

MATERIALS:

Digital or disposable cameras, paper, pencils glue sticks, an outdoor area for taking photos

PRESENTATION:

Explain that today we'll be making a math problem with shapes we find outside. Brainstorm with kids what shapes to look for (i.e. a circle could be a flower center, the sun, a wheel, etc.) Ask students to be thinking of a math problem, (example 3 triangles plus 2 triangles =5 triangles.). Demonstrate how to use the camera to take a picture of the shapes that will be in their math problem.

DIRECTIONS:

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

TIME: 45-60 minutes**PROCESSING THROUGH THE SIX PILLARS:**

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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?