

LESSON: Photographing a Math Problem

GRADE: 1

OBJECTIVES:

Operations & Algebraic Thinking

Add and subtract within 20-

- **1.OA.C.6** Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.

MATERIALS & RESOURCES:

- Digital cameras
- Paper
- Pencils
- Glue sticks
- Outdoor area for photographing shapes in nature

PRESENTATION:

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

DIRECTIONS:

1. Have students decide on a math problem.
2. 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 shapes they find in nature. Remind them they need enough shapes to show their math problem
3. Once inside, have students write their math problem on a large sheet of paper.
4. Once photos have been printed, students glue them to their large paper to illustrate their math problem.
5. Have them share their math problem with the class.

TIME:

45-60 minutes

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?