

Lesson 4 Resource

Objects and Materials Observation Setup

Instructions

Follow the instructions below to set up the objects and materials observation activity before the lesson.

Materials (1 set per group): 4 oz clear plastic cups (8), 4 oz clear plastic jars with lids (4), blue or green plastic building blocks (2), blue or green dish soap (2 fl oz), plastic handheld magnifier (1 per student), blue or green marbles (2), marker (1 per class), masking tape, safety goggles (1 per student), seltzer (2 fl oz), plastic tray or 6 qt clear plastic bin (1, optional), metal washers (2), water (2 fl oz)

Materials Note: Each group should receive plastic building blocks, marbles, and dish soap of the same color (i.e., each group receives either blue blocks, blue marbles, and blue dish soap or green versions of these items).

Preparation

Prepare 3 labeled jars and 1 cup of each liquid per group. Prepare cups containing water and dish soap before the lesson. Prepare cups containing seltzer during the lesson. (See step 6.)

1. Use masking tape and a marker to label the lids of 3 plastic jars Water, Seltzer, and Dish Soap, respectively.
2. Add 2 fl oz water to a plastic cup.
3. Add 2 fl oz dish soap to a plastic cup.
4. When the activity begins, place 2 plastic blocks, 2 marbles, 2 washers, 2 plastic cups, 1 unlabeled plastic jar, and 1 magnifier per student in each group's work area.
5. When students complete their observations of the solid samples, distribute the cup containing water, a clean plastic cup, and a Water jar to each group.
6. When students complete their observations of the water samples, add 2 fl oz seltzer to a plastic cup. Distribute the cup containing seltzer, a clean plastic cup, and a Seltzer jar to each group.
7. When students complete their observations of the seltzer samples, distribute a cup containing dish soap, a clean plastic cup, and a Dish Soap jar to each group.

Procedure: Students follow the procedure in the lesson.

Note: Keep the liquid samples sealed in jars after the activity, ensuring that the jars are sealed tightly. Each group will use a sample of each liquid, a plastic building block, a marble, and a metal washer in Lesson 5.

