

SALS Activity 1

Arranging colored eggs from light to dark

Materials

- SALS app downloaded onto iPhone or iPad
- SALS probe
- Clear wax crayon
- Egg decorating kit or at least four different colored flavors of Kool-Aid® (choose envelopes that make 2 quarts of Kool-Aid).
- 400mL beakers or 15-ounce clear glass cups, one for each dye or Kool-Aid color
- White vinegar (if using egg decorating kit)
- Cardboard egg carton or paper towels
- Hard boiled eggs; one for each dye or Kool-Aid color
- Egg dipper or spoon
- One or two trays, cookie sheets, or pans with raised edge or rim
- 100 ml volume measure (e.g., notched syringe)
- 20 ml volume measure (e.g., notched syringe)
- Tablespoon measure
- Tactile markers or large print/braille labels
- Disposable gloves (optional)

Directions

1. Prepare the coloring agent.

Egg dye kit instructions

- Set out the beakers or glass cups in a row on the serving tray, ensuring there is one beaker or cup per tablet in the dye kit. The tray serves as a tactile indicator of where the spillable materials are located.
- Place one dye tablet in the bottom of each container.
- Add one tablespoon of vinegar and about 120mL of room temperature water (using notched syringes or other adapted measuring device) into each container and gently swirl the contents of each for about 30 seconds to dissolve the dye tablets.
- Label each cup with a tactile marker or braille/large print label.

Kool-Aid instructions

- Set out the beakers or glass cups in a row on the serving tray, ensuring there is one beaker or cup per Kool-Aid color. The tray serves as a tactile indicator of where the spillable materials are located.

- Pour one package of each flavor of Kool-Aid into separate beakers or cups.
- Pour about 200mL of room temperature water into each container (using notched syringes or other adapted measuring device) and gently swirl the contents of each for about 1 minute to dissolve the powder.
- Label each cup with a tactile marker or braille/large print label.

2. Prepare materials for egg drying by setting the cardboard egg carton nearby, or lining another rimmed tray with paper towels. Some egg-dye kits come with a cardboard box that can be used for egg drying.

3. Move the tray holding the beakers with egg dye or Kool Aid to a place with even ambient lighting. Using the SALS probe, place the colors of the dyes in order from lightest to darkest. Recall that higher pitched sounds indicate lighter colors. Store the tones in the iPhone or iPad with appropriate file names.

4. Apply wax to half of each egg with the wax crayon.

5. Using the spoon or the egg dipper, gently place one egg into each of the beakers containing dye.

6. Wait 5 minutes for the dye to color the eggs and then remove each egg from the beakers and place them in the prepared set up for drying. Use gloves when handling the dyed eggs if there is concern about staining skin and fingers.

7. Wait about 2 minutes for the eggs to dry.

8. One at a time, take each egg and make a measurement with the SALS probe on the waxed and un-waxed sides, making sure the ambient light is the same for each measurement. Take note of these results and store the tones with appropriate file names.

9. Use the SALS probe to place the colored part of the eggs in order from lightest to darkest.

Questions to answer

1. Did the order of the eggs from lightest to darkest match the order of the beakers of dye from lightest to darkest? If need be, ask a sighted instructor or peer if the order of the colored eggs was correct.

2. Explain the results comparing the waxed and non-waxed sides of the eggs.

3. If the order of the eggs and dye solutions in the beakers was different, explain why this could happen.

Clean up

Dispose of eggs in the trash and pour the dye solutions down the sink with running water.