
Performance Station: Matter

Factors of Scientific Literacy: B1, C3, C10, E3, E7

Learning Objective: To observe and describe physical and chemical changes

Note to Teachers: The liquid is lemon juice. The white powder is baking soda.

Materials

- 1 test tube
- test tube stand
- 1.5 mL spoon
- thermometer
- white powder
- stir stick
- graduated cylinder
- eye dropper
- liquid
- water
- pail

Procedure

1. Measure 5 mL of liquid. Put it in the test tube.
2. Measure the temperature of the liquid. Record it. _____
3. Pick up the test tube and hold it so that your hand is covering the part of the test tube with the liquid.
4. Measure about 4 mL of white powder.
5. Add the white powder to the liquid.
(Remember: Never point a test tube at someone close to you.)
6. Measure the temperature of the substance in the test tube. _____
7. Describe what happened to the bottom of the test tube when you added the powder to the liquid.

8. Record what you saw happen when you added the powder to the liquid.

9. Classify your observations on the following table. Which are chemical changes and which are physical changes?

Chemical changes	Physical change