

OBJECTIVES

Describe the physical properties of four substances.

Identify physical and chemical changes.

Classify four substances by their chemical properties.

MATERIALS

- baking powder
- baking soda
- carton, egg, plastic-foam
- cornstarch
- eyedroppers (3)
- iodine solution
- spatulas (4)
- stirring rod
- sugar
- vinegar
- water

SAFETY



White Before Your Eyes

You have learned how to describe matter based on its physical and chemical properties. You have also learned some signs that can help you determine whether a change in matter is a physical change or a chemical change. In this lab, you'll use what you have learned to describe four substances based on their properties and the changes that they undergo.

Procedure

- 1 Copy Table 1 and Table 2 shown on the next page. Be sure to leave plenty of room in each box to write down your observations.
- 2 Using a spatula, place a small amount of baking powder into three cups of your egg carton. Use just enough baking powder to cover the bottom of each cup. Record your observations about the baking powder's appearance, such as color and texture, in the "Unmixed" column of Table 1.

