

**Goal** • Demonstrate your understanding of the particle model and changes of state.

### What to Do

Answer the following questions in the space provided.

1. Turn to page 32 of your textbook. Read the five points that summarize the particle model of matter. Use the points to complete the statements below.

(a) Solids have a definite shape because

\_\_\_\_\_

(b) Fluids (liquids and gases) flow because

\_\_\_\_\_

(c) Gases do not have a definite shape because

\_\_\_\_\_

2. You have learned about the following changes of state:

- sublimation (solid to gas, or gas to solid)
- condensation
- vaporization
- melting (fusion)
- freezing (solidification)

Identify each change of state described below.

(a) Ice is left out on a counter. \_\_\_\_\_

(b) Frost forms on a window on a cold day. \_\_\_\_\_

(c) Water is left in a freezer. \_\_\_\_\_

(d) Clothes are left outdoors to dry. \_\_\_\_\_

(e) Dry ice is used to create fogs. \_\_\_\_\_

(f) A bathroom mirror fogs up after a shower. \_\_\_\_\_

(g) A pond gets shallower at the end of a long hot summer. \_\_\_\_\_

(h) Your hair was wet when you left the house, but it dries by the time you get to school. \_\_\_\_\_