

Section Review

Four States of Matter

USING VOCABULARY

1. Write an original definition for *gas* and *plasma*.

UNDERSTANDING CONCEPTS

2. **Describing** Describe the difference in particle motion between solids, liquids, and gases.

INTERPRETING GRAPHICS

Use the image below to answer the next two questions.



3. **Identifying** Identify the state of matter shown in the jar.

4. **Concluding** Can the individual particles inside the jar move? If so, describe how they move.

Section Review *continued*

CRITICAL THINKING

5. Analyzing Processes The volume of a gas can change, but the volume of a solid cannot. Explain in terms of particles why this is true.

CHALLENGE

6. Evaluating Hypotheses Tommy is planning an experiment to explore particle motion for two different substances. He hypothesizes that particle motion will be the same for each substance under the same conditions. What important factor has he not taken into account?
