

Solids, Liquids, and Gases

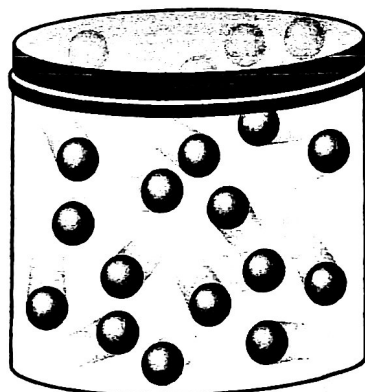
States of Matter (pages 70–75)**Solids** (pages 71–72)

Key Concept: The fixed, closely packed arrangement of particles causes a solid to have a definite shape and volume.

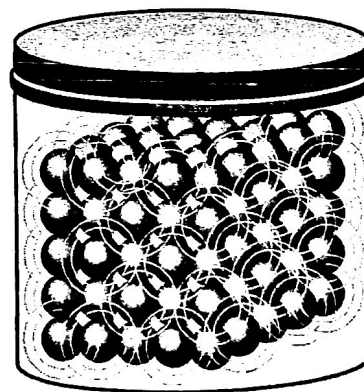
- A **solid** is a kind of matter that has a fixed shape and a fixed volume. Your pencil is a solid. The shape and volume of your pencil will not change if you move the pencil from place to place.
- The different elements and compounds that make up matter are made of particles. The particles of a solid are packed closely together.
- The particles of a solid cannot move from their spot within the solid. However, the particles can move slightly back and forth in place.

Answer the following questions. Use your textbook and the ideas above.

1. Is the following sentence true or false? The particles that make up a solid do not move at all. _____
2. The picture shows two containers with particles of a kind of matter in each. Circle the letter of the container that shows how the particles of a solid are arranged.



a.



b.