## **States of matter**

STUDENT BOOK pp. 6, 43, 66

- 1. What are the main states (phases) of matter?
- **2.** Identify the state of matter in each of the following cases:
  - a) The substance has definite shape and volume.
  - **b)** The particles are not bound together.
  - c) The particles can slide over one another.
  - **d)** The particles are very far apart.
  - e) The particles are strongly bound together.
  - f) A closed container is needed to hold the substance.
  - g) The substance has definite volume, but no definite form.
  - **h)** The particles move rapidly around one another.
  - i) The substance occupies all available volume.
  - j) The substance remains in an open container and assumes its shape.
- **3.** Give a similarity and a difference for each comparison in the following table.

Comparison	Similarity	Difference
Solid state and liquid state		
Liquid state and gaseous state		