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States of matter

STUDENT BOOK pp. 6, 43, 66

1. What are the main states (phases) of matter?

Solid, Liquid, gas

- 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	- Docupies def Isalia has Volume - Very close - Liquid - shape of Container - Liquid particles how
Liquid state and gaseous state	- assumes shape Liquid-particles by container slide over one another yas-far apart/ more freedom more in all directions than solid