



# Section 7.1

## States of Matter

### Study Notes

By the end of section 7.1 you should be able to understand the following:

- The particle model of matter describes how particles of solids are closer together than particles of liquids. Particles of a gas are spread far apart.
- Kinetic molecular theory describes how adding energy to particles makes them move faster and farther apart.
- Adding or removing energy from matter can cause changes in the state of matter.

### NOTES

Compare the terms matter, mass and volume.

1.

2.

3.

Describe the three states of matter.

1.

2.

3.

# NOTES

Describe the kinetic molecular theory.

1.

2.

3.

4.

Compare thermal expansion and thermal contraction.

1.

2.

**Do the Reading Check on page 249**

## NOTES

Compare the terms "heat" and "temperature".

1.

2.

Compare the changes of state between solid and liquid, liquid and gas, and solid and gas.

1.

A.

B.

2.

A.

B.

3.

A.

B.

**Do the Reading Check on page 251**

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