

CHAPTER # 4

MATTER AND CHANGES IN ITS STATES

1) What is matter? Mention the states of matter.

Anything which has mass and occupy space is called matter. There are 3 states of matter: Solid, Liquid & Gas.

2) Differentiate between boiling and evaporation of a liquid.

Boiling	Evaporation
The process of changing a liquid into vapour state on	The process at which a liquid changes into gas at a temperature below than its boiling

heating is called
Boiling.

point is called
evaporation.

3) When does matter changes its state?

Matter changes its state on cooling or heating.

4) How do solids differ from liquids with regard to particle arrangement?

Solids	Liquid
They are arranged in regular pattern.	They are not arranged in regular pattern.
They are strongly attracted to each other.	They are attracted to each other by weak forces.
They can only vibrate in fixed position.	They move over very short distances.

5) Describe what happens when a solid is heated.

OR Describe melting of a solid.

i) On heating particles of solid get energy and start vibrating forcefully.

ii) When we continue heating, particles get free from one another and move to some distance.

iii. Now they are not in fixed position.

V. The process changes a solid into a liquid is called melting.

Examples: change of ice into water.

6) Why does ice cube melt at room temperature?

Because the heat energy absorbed by the ice cubes from surroundings.