

ICSE PHYSICS 8

Chapter 1: Matter

Worksheet 1

1. Fill in the blanks.

- (i) Every matter is made up of tiny particles called _____.
- (ii) _____ can be compressed only a little.
- (iii) As a liquid is heated, the kinetic energy of molecules goes on _____.
- (iv) The fixed temperature at which freezing of a liquid takes place at standard atmospheric pressure is called its _____.
- (v) Water boils at _____°C.

2. Encircle the odd one out.

- (i) Book, duster, pencil and water.
- (ii) Oxygen, hydrogen, nitrogen and oil.
- (iii) Water, oil, alcohol and chair.
- (iv) Evaporation, volume, surface area and humidity.
- (v) Boiling, evaporation, solid and sublimation.

3. Answer the following questions.

- (i) Define molecules.
- (ii) What happens to motion of molecules with increase in temperature?
- (iii) Which state of matter cannot be compressed easily?
- (iv) Name the process in which a substance in vapour state on cooling changes into liquid state.
- (v) What is meant by evaporation?

4. Define the following:

- (i) Atom
- (ii) Solid
- (iii) Liquid
- (iv) Gas
- (v) Melting

Chapter 1: Matter

Worksheet 2

1. Fill in the blanks.

- (i) The rate of evaporation _____ if the surface area of the liquid increases.
- (ii) The intermolecular forces of _____ are very strong.
- (iii) _____ can be compressed easily.
- (iv) Water freezes into ice at _____.
- (v) _____ is the reverse process of sublimation.

2. Say True or False.

- (i) The process of changing of liquid state into vapour state at fixed temperature is called boiling.
- (ii) A gas can flow easily.
- (iii) The molecules in solids are less tightly packed.
- (iv) The space between the molecules of a substance is called intermolecular space.
- (v) The intermolecular force of attraction amongst molecules of two different substances is called the force of cohesion.

3. Give one word for the following:

- (i) This state of matter can be stored in a container.
- (ii) This state of matter has almost zero intermolecular force.
- (iii) This is the process of changing of a liquid into a solid at a fixed temperature.
- (iv) The process of transformation of solid on heating directly into gas without passing through the intermediate liquid.
- (v) Solids which undergo sublimation.

4. Answer these questions.

- (i) Define molecule.
- (ii) Which state of matter has extremely small intermolecular space?
- (iii) What happens to kinetic energy of molecules when a solid is heated?
- (iv) What is meant by freezing?
- (v) Why should we wear cotton clothes in summer?