

The electrons due to electrostatic force between the nucleus and electrons, the electrons revolve around the nucleus

HW

Exercise - II

1) Name the smallest particle from which matter is made up of.

A: The smallest particle from which matter is made up of are called atoms.

8) Give reasons:

a) Liquids and gases flow but solids do not

because solids have high intermolecular force

b) A gas fills up the space available to it

because the molecules are wide apart and

have no limited boundary.

c) The odour of scent spreads in a room because

the gas molecules spread throughout the entire space available to them.

d) We can walk through air because they have less intermolecular force.

e) Liquids have a definite volume but no definite shape because they acquire the shape of their container.

f) When a teaspoon of sugar is added to a glass of water and stirred, the water level in the glass remains unchanged because salt fills the space between the water molecules.

g) When an empty gas jar is inverted over a gas jar ~~is~~ containing a coloured gas, the gas also spreads into the empty jar because the molecules are wide apart.

h) A red ink drop added into a small amount of water in the glass turns the water red in some time because a small amount of colour can paint a large volume of water.

a) Define :

a) cohesive force: The force of attraction between like particles is called cohesive force.

b) Diffusion: The phenomenon of intermixing of particles of one kind with another kind.

c) Brownian movement: The zig-zag motion of particles suspended in a medium is called brownian movement.