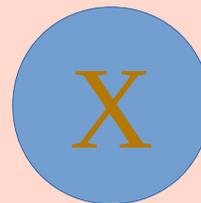


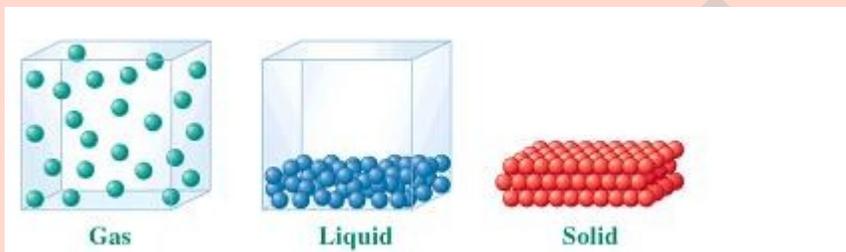
CHEMISTRY

CWX2-1
(EM)

CHAPTER 2 GAS LAWS AND MOLE CONCEPT



MODULE 1 – PROPERTIES OF GASES AND GAS LAWS



Robert Boyle



Jacques Charles

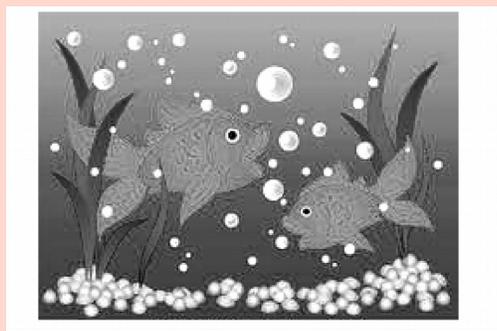


Avogadro

1. Choose the correct statements regarding gases .

- a) Distance between molecules low
- b) Attractive force between molecules low.
- c) The freedom of movement of molecules low.
- d) Energy of molecules high

2. Air bubbles from the bottom of an aquarium is given below. The size of air bubbles rising from the bottom of an aquarium increases. Why?



3. The data showing relation between the pressure and volume of a fixed mass of gas is given below.

Pressure	Volume
1 atm	80 L
-----	40 L
4 atm	-----
8 atm	-----

a) Complete the table.

b) Which is the law applicable here? Write its mathematical expression?

4. The relation between the volume and temperature of a fixed mass of gas at constant pressure is shown in the table below.

Volume	Temperature
600 L	300 K
400 L	-----
-----	500 K

a) Complete the table .

b) Which law is associated with the given relation.?

5. The properties of certain gases kept at same temperature and pressure is given.

Element	Volume	No of gas molecules
Nitrogen	20L	x
Oxygen	40L	-----
Ammonia	10L	-----
Carbondioxide	-----	4x

a) Complete the table

b) Identify the gas law which agrees with this data.