SKT SIY 7043638933 +

# GENERAL CHEWISTRY

group Name

L- online support INC-3A



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	Introduction
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	1500 (20-25 yo)
	Merged. (No fixed pattern)

# **Mole Concept**

#### INTRODUCTION OF CHEMISTRY

Chemistry is the study of chemicals i.e. matter.

Universe = matter + energy

**Matter**: Everything that has mass, volume and that can be felt by any of our five senses (taste, hear, touch, see & smell)

Mass: Gathering of particles

<u>Volume</u>: Occupied space or total space available for free movement of

particles of the matter.

Matter CHEMICAL Classification Physical classification · pure substances Solid dequid Plasme OFC

# Physica classification



- 0 0 0 0 0 0
  - postitic can.
    more with
    Certain boundary
    - · Volume fixed.

moderate

Liquid Gas-

partide

can move

freely

mter postrich ferm

→• particle Can't move

· Shape fixed.

Solid

- · Volume fixed
- max.

Liquid Solid internal energy internal energy Internal energy Melting : Conversion of solid into liquid at constant temp. Pert of (External) Maling point + > tendany to go (Solid) (Leguid) Pext <<< v.p ( Gas) Intermolecular force

- · The temperature at which a solid converte into hquid state at constant pressure.
- · (Evaporation) (Vapourisation)

Parti cles

- · conversion of Aquid

  Into geu at any temperature
  and it is for surface

  at constant Pressure.
- Boiling point the Temperature at dequed Converte into gasseous state at constant pressure.

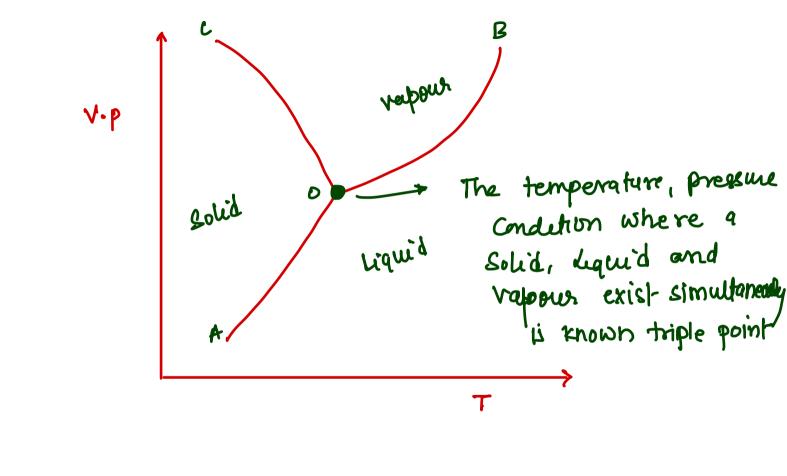
Pext = 0.5

Boiling point -> Tb = T

(9) Tb1 > Tb

(C)  $T_b$   $< T_b$ 

9 bosition Boiling vapourisation Melling Solid Gas. Liquid condensation freezing Sublimation



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## **Mole Concept**

#### CLASSIFICATION OF MATTER

- PHYSICAL CLASSIFICATION: On the basis of normal observation-
- 1.SOLID: Definite mass, definite volume, definite shape, strongest interparticle attraction
- <u>2.LIQUID</u>: Definite mass, definite volume, indefinite shape, moderate interparticle attraction
- 3.GAS: Definite mass, indefinite volume, indefinite shape, negligible interparticle attraction

## **Mole Concept**

#### REPRESENTATION OF ELEMENTS