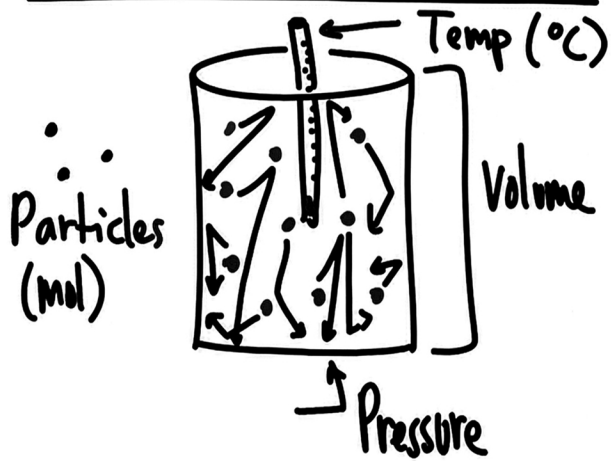


Noteset 3C (Part 2) - In Class Noteset

Molar Volume

Properties of a gas

Gas: Variable volume and shape



Volume (L) [of gas]

The space a gas occupies in a container (L, Liters)

Volume of a gas is based on the # of particles of a gas (or mol)

Molar Volume: The volume of 1 mol particles of a gas under normal conditions.

Molar Volume in conversions

Molar Volume (gas)

$$1 \text{ mol } A(g) = 22.4 \text{ L } A(g)$$

$$\frac{1 \text{ mol } A(g)}{22.4 \text{ L } A(g)} = \frac{22.4 \text{ L } A(g)}{1 \text{ mol } A(g)} = 1$$

$$\text{mol } A \rightarrow \text{Vol } A$$

_____ mol A	22.4 L A
<hr/>	
	1 mol A

$$\text{Vol } A \rightarrow \text{mol } A$$

_____ L A	1 mol A
<hr/>	
	22.4 L A