HW
28/9/21

M.D.M connect app

1) Explain how gases can be liquified?

A) By adding pressure and reducing the temperature, gases can be liquified.

2) What is sublimation? Give examples.

A) Sublimation is the change of solid state to gaseous state directly.

Eg: The sublimation of camphor.

3) Give reasons :

i) Liquid and gases flow but solids do not?

molecules of
A) It happens, because the gases and liquids have more intermolecular space. ~~between the~~

b) Why is an egg kicked out of a bottle when air is blown inside the bottle?

A) Egg is kicked out of a bottle when air blown inside the bottle because this is based on the priciple of air. Air moves from a 'high-pressure system' to a 'low-pressure system'.

Air expands while heated and contracts when it is cooled.

c) The odour of scent spreads in a room?

A) The odour of scent spreads in a room because the scent is a gaseous matter and it has more intermolecular space than liquid. ~~The gas can flow everywhere the space available~~ The molecules of gases are far apart each other.

d) We can walk through air.

A) As the molecules of air are loosely packed and they attract each other hardly, our body (hands) move fast to walk.

e) Liquids have definite volume but no definite shape.

A) Liquids have definite volume but no definite shape because the molecules of liquids are loosely packed in comparision to solids. So, they can flow and ~~that's~~ that's why they have definite volume but no definite shape.

f) When a teaspoon of sugar is added to half a glass of water and stirred, the water level in the glass remains unchanged.

A) Between the molecules of water there are some spaces available. ~~The sugar when~~ So, when the sugar is added ~~to half a glass~~ and stirred, the sugar take the place ~~the molecules~~ between the molecules. So, that's why the water

level doesn't change.

g) When an empty gas jar is inverted over a gas jar containg a coloured gas, the gas also spreads into the empty jar.

A→ As, the molecules of gas are very loosely packed, they remain far apart each other and remain flying in the space available to them. So, that's why it happens.

h) A red ink drop added to small amount of water in a glass turns the water red in some time.

A→ When a red ink drop added to small amount of water in a glass turns the water red in some time because the particles diffuse with particles of water slowly and continuously and the water turns red.