

- 1) This process occurs when a gas is cooled because on cooling, the energy of particles decreases and their movement becomes slow. The gaps between the particles decrease and the force of attraction between them increases, as a result they change from gas to liquid.
- 2) The conversion of the solid state directly into the vapour state without converting into liquid state is called sublimation. Ex → Camphor and dry ice.
- 3) The intermolecular force of the liquid and gas are weak as compared to

Cue  
Tuesday  
28.08.21

solids. The molecules of gas and liquid are very much far apart from each other. But, the intermolecular space of solid is very much less. That's why liquid and gases can flow, but ~~can~~ solids cannot flow.

b) When we invert the bottle and blow air into the bottle through the side opening, it creates high pressure and hence the egg is kicked out of the bottle.

c) Scent molecules of the scent fill up the space between the air. They are mixed up with the air particles due to diffusion and hence the odour of scent spreads in a room.

d) The molecules of air are far apart and

we can walk through the gaps in the air.

e) The liquids have a weak intermolecular force of attraction. But they have large intermolecular space. But the molecules those are contained in the liquid are always the same. Hence, liquid have a definite volume but no definite shape.

f) when a teaspoon of sugar is added to half a glass of water, the water level remains the same because the sugar particles cover the spaces

hw  
Tuesday  
28.08.21

between the spaces of the water:  
g) This is because gases ~~are~~ can diffuse  
or flow in all directions.

h) When we put a drop of red ink  
to a glass of water, its particles  
diffuse with the particles of water  
slowly but continuously and the water  
turns red.

Shy