

# Heat

1. What are the effects of heat?

Ans. The effects of heat are :-

1. Change in temperature of the body.
2. Change in size, or shape of the body.
3. Change in state of the body.

2. Define Thermal Expansion.

Ans. Thermal expansion is the tendency of matter to change in shape, volume, and area in response to a change in temperature.

3. Define Sublimation and condensation.

Ans. ~~Cond~~ The process of change of vapour on cooling to liquid is called condensation.

Sublimation: process of change of solid into vapour on heating is called sublimation.

## Condensation

## Sublimation

\* Condensation is the process where water vapour becomes liquid. It is the reversal of evaporation where liquid water becomes a vapour.

\* Sublimation is the expansion of a substance immediately from the solid to the gas state, without passing through the intermediate liquid stage.

\* It arises either when the air is cooled to its dew point or when it becomes so saturated with water vapour and is not in a state to hold water anymore.

It takes place when the particles of a solid absorb enough energy to entirely lose with stand the force of attraction between them.

\* The different forms of condensation are dew, fog, frost, mist

For example, when the surface layer of snow ~~is~~ got into fog without melting, this is an example of sublimation.

Q. Define latent heat.

ANS. During change of state at a fixed temperature, heat is either absorbed or released but this heat does not change the temperature of the substance. It is called the latent heat.