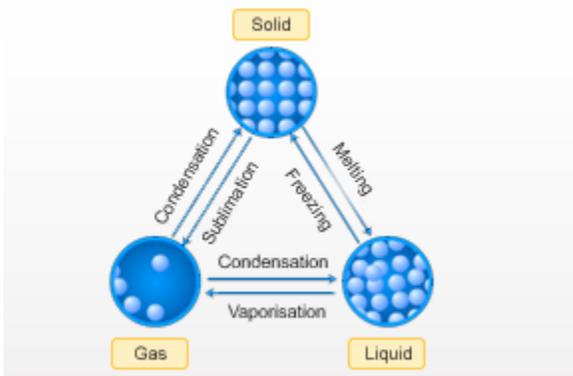


Inter Conversion of States of Matter



Melting is the process where **solid changes into a liquid**. **Heat energy** that is used up by a body to change its state or phase is called **latent heat**. **Latent Heat of Fusion:** The **amount of heat energy** that is required to **change unit mass of a solid into liquid** at a standard **atmospheric pressure**.

Vaporisation The **process** where a **liquid changes to gas**.

Latent Heat of Vaporisation

The **amount of heat** required to change a **unit mass of liquid to gas** at standard **atmospheric pressure**

Evaporation. The process where a **liquid changes into vapour** at any **temperature below its boiling point**.

Surface area, temperature and the **wind** are the **factors that affect the rate of evaporation**.

The process where **vapour changes to a liquid** is called **condensation**.

The process, where a **liquid converts into a solid**, is called **freezing**. The process, where a **solid**, on heating, **directly changes into gas** without **changing into liquid**, and a **gas**, on cooling, directly changes to **solid without changing into liquid** is called **sublimation** Applying **pressure** and **reducing temperature** can **liquefy gases**. The **phenomenon** of the **change of matter from one state to another** and back to original state, by **altering the temperature** is called **interconversion of states of matter**