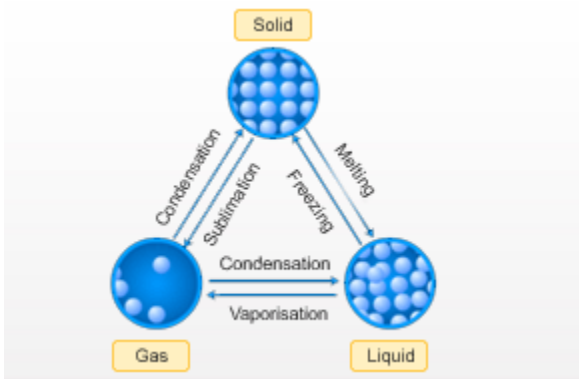


## Inter Conversion of States of Matter



**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**