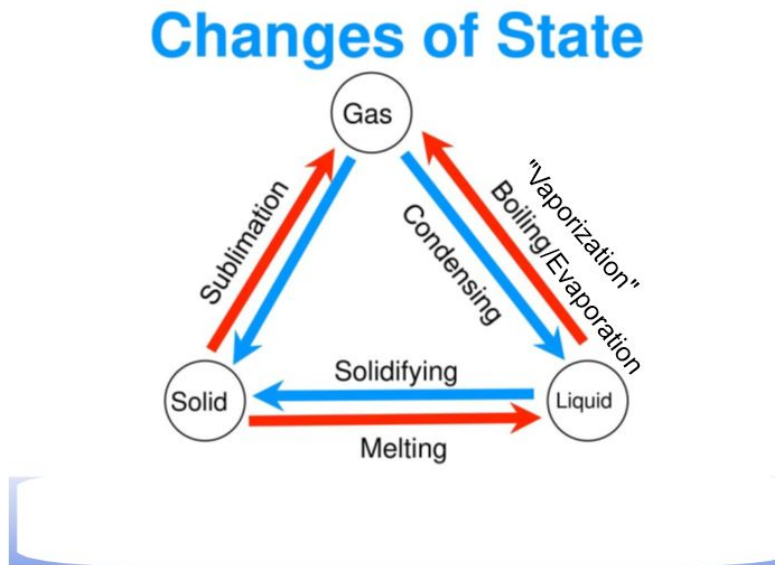


Changes of state



At its melting point, the particles of a solid substance are vibrating so fast that they break free from their fixed positions.

At its freezing temperature, the particles of a liquid are moving so slowly that they begin to form regular patterns.

Vaporization takes place when the particles in a liquid gain enough energy to form a gas.

Evaporation: takes place only on the surface of a liquid

Boiling: occurs when a liquid changes to a gas below its surface as well as at the surface.

Condensation occurs when particles in a gas lose enough thermal energy to form a liquid.

Sublimation is when particles of a solid do not pass through the liquid state as they form a gas.