

### 6.3 Changes of State

When a solid is turning into a liquid, the process is called **melting**.

This happens when heat is applied to the solid or can be gained from the surroundings.

As the temperature increases, the particles start to vibrate as they gain kinetic energy weakening intermolecular forces. This gives them greater freedom to move freely forming a liquid state.

When a liquid is turning into a solid, the process is called **freezing**.

This happens when the temperature decreases the kinetic energy of the particles also decreases causing particles to slow down. At this position, the particles have less energy to overcome the attractive forces.

When a liquid turns into gas, a process called **evaporation** takes place.

When a gas turns into liquid, it is **condensation**.

When a solid turns into gas, the process is called **sublimation**.

When a gas turns into a solid, the process is called **deposition**.