Subject	**Physics**
Unit/Topic	Year 10 Particle Model

Key Vocabulary	Definition
Condensing	Change in state from a gas to a liquid.
Density	Density is defined by the equation mass/volume. It is usually measured in kg/m^3 (can be in g/cm^3).
Evaporating	Change in state from a liquid to a gas.
Freezing	Change in state from a liquid to a solid.
Gas pressure	Pressure is fore per unit area. The pressure of a gas is due to the force the gas particles exert on the walls of the container.
Internal energy	The total kinetic and potential energy of all of the particles that make up the system. Heating increases the energy stored in the system by increasing the energy of the particles. This either increases the temperature or produces a change in state.
Melting	Change in state from a solid to a liquid.
Particle motion in a gas	Particles in a gas move randomly.
Specific heat capacity	The amount of energy needed to increase the temperature of 1 kg of a substance by 1oC.
Specific latent heat	The energy needed to change the state of 1 kg of a substance with no change in temperature.
Specific latent heat of fusion	The energy needed to change 1 kg of liquid to gas at constant temperature.
Specific latent heat of vaporisation	The energy needed to change 1 kg of solid to liquid at constant temperature.
Sublimation	Change in state from a solid to a gas or a gas to a solid (missing out liquid phase).