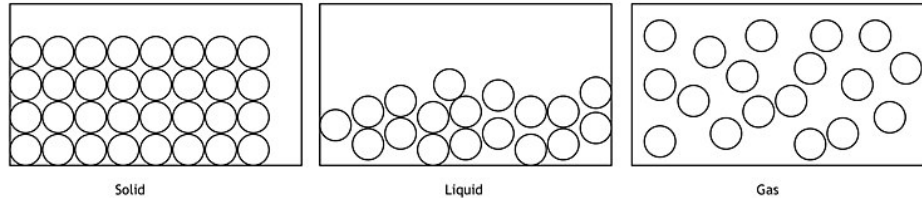


The Particle Model		
1	Density	mass in a particular volume
2	Density Equation	density ( $\text{kg/m}^3$ ) = mass (kg) / volume ( $\text{m}^3$ )
3	Particle model diagrams	
4	Calculating volume of a cuboid	length x width x height
5	Measuring volume of an irregular object	<ul style="list-style-type: none"> <li>-fill a displacement can with water</li> <li>-submerge the object</li> <li>-measure volume of water displaced with a measuring cylinder</li> </ul>

Specific heat capacity		
6	Internal Energy	the total kinetic energy and potential energy of all the particles (atoms and molecules) that make up a system
7	Specific heat capacity	the amount of energy required to raise the temperature of one kilogram of the substance by one degree Celsius

Changing state		
8	Melting	change of state from solid to liquid
9	Freezing	change of state from liquid to solid
10	Evaporating	change of state from liquid to gas at the surface of the liquid
11	Condensing	change of state from gas to liquid
12	Sublimating	change of state from solid to gas
13	Boiling	change of state from liquid to gas at a fixed temperature throughout the liquid
14	Specific latent heat	the amount of energy required to change the state of one kilogram of the substance with no change in temperature
15	Specific latent heat of fusion	the energy for a change of state from solid to liquid (or liquid to solid)
16	Specific latent heat of vaporisation	the energy for a change of state from liquid to gas (or gas to liquid)

Particle motion in gases		
17	Kinetic energy and temperature relationship	the more kinetic energy of the particles, the greater the temperature of the substance
18	Temperature and pressure relationship	the greater the temperature, the greater the pressure of the gas