

Science Year 7 Particle Model

A Changes of State		
1	Evaporate	Change from liquid to gas at the surface of the liquid, at any temperature.
2	Boil	Change from liquid to a gas of all the liquid when the temperature reaches boiling point.
3	Condense	Change of state from gas to liquid when the temperature drops to the boiling point.
4	Melt	Change of state from solid to liquid when the temperature rises to the melting point.
5	Freeze	Change of state from liquid to a solid when the temperature drops to the melting point.
6	Sublime	Change of state from a solid directly into a gas.

B Solids, Liquids and Gases		
1	Solids	Particles are closely spaced. They are in contact and have an ordered arrangement. The particles vibrate
2	Liquids	The particles are in contact. They move over each other in random motion.
3	Gases	The particles are widely spaced and move rapidly in random motion.

C Particle Key Words		
1	Particle	A very tiny object such as an atom or molecule, too small to be seen with a microscope.
2	Density	How much matter there is in a particular volume, or how close the particles are.
3	Gas Pressure	Caused by collisions of particles with the walls of a container.
4	Diffusion	The process by which particles in liquids or gases spread out through random movement from a region where there are many particles to one where there are fewer.