The 3 states of matter and the particle model			
1	States of	the 3 forms that matter can be in: solid, liquid and gas	
	matter		
2	Solids	substances with a fixed shape and volume	
3	Liquids	substances with a fixed volume, but no fixed shape	
4	Gases	substances that have no fixed shape or volume and are easily compressed	
5	Particles	small pieces e.g. atoms or molecules that make a substance	
6	Properties	qualities of a substance that can be measured and compared	
7	Volume	the amount of space a material takes up	
8	Compressed	made smaller by squeezing together	
9	Particle model	a representation of how particles behave in solids, liquids and gases	
10	Vibration	small backwards and forwards motion	
11	Kinetic energy store	the energy store of moving objects	
12	Attraction	pulling force between 2 objects	
13	Expansion	increase in volume	
14	Contraction	decrease in volume	
15	Melting	change of state from a solid to a liquid	
16	Freezing	change of state from a liquid to a solid	
17	Evaporating	change of state from a liquid to a gas	
18	Condensing	change of state from a gas to a liquid	
19	Sublimation	change of state from a solid to a gas, without the liquid phase	
20	Change of state	altering which of the 3 states of matter that a material is in	
21	Cooling	energy is transferred out of a material, resulting in a lower temperature	
22	Heating	energy is transferred into a material, resulting in a rise of temperature	
23	Diffusion	the movement of particles from a place where they are in	
		high concentration to a low concentration	
24	Gaseous	in the form of a gas	
25	Brownian motion	the random movement of particles in liquids and gases	

Mixtures			
26	Mixture	different substances combined physically but not chemically	
27	Pure	containing the particles of only one substance	
28	Dissolve	combine a solid with a liquid to form a solution	
29	Soluble	a solid substance that will dissolve in a liquid	
30	Solution	liquid containing dissolved solid (solute + solvent)	
31	Solute	solid that dissolves in a liquid to form a solution	
32	Solvent	liquid in which a solid is dissolved to form a solution	
33	Saturated solution	a liquid that contains as much dissolved solid as it possibly can	
34	Insoluble	solid that will not dissolve	
35	Separate	remove a substance from a mixture	
36	Filtration	process of separating insoluble solids from liquids, by passing the solution through filter paper	
37	Filter funnel	a piece of scientific apparatus used during filtration	
38	Filtrate	the liquid that passes through the filter when filtration is carried out	
39	Residue	the solid left in the filter when filtration is carried out	
40	Chromatography	process used to separate (coloured) dissolved solids	
41	Chromatogram	pattern of colours left on the piece of paper when chromatography is carried out	
42	Distillation	separating a liquid from a solution by evaporating the liquid and then condensing it	
43	Boiling point	when a liquid is as hot as it can get before turning into a gas	
Density in liquids			
44	Mass	the amount of matter in an object, measured in g and kg	
45	Density	measure of the concentration of mass of an object. Calculated using density = mass/volume	
46	Particle Model Diagrams	Solid Liquid Gas	