


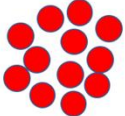
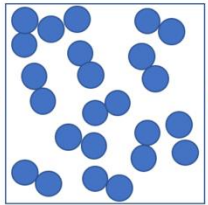
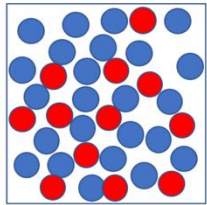


PROPERTIES AND CHANGES OF MATERIALS – Knowledge Organiser Year 5 Spring 1															
Vocabulary		The Particle Model													
particle	Tiny building blocks which make up matter.	<p>The Particle Model is used to explain the physical properties of solids, liquids and gases. It describes the arrangement and movement of particles in a substance.</p> <div><div><p>Solid</p></div><div><p>Liquid</p></div><div><p>Gas</p></div></div> <table><tr><th></th><th>Particle Arrangement</th><th>Particle Movement</th></tr><tr><td>Solid</td><td>Regular Close together</td><td>Vibrate about a fixed position</td></tr><tr><td>Liquid</td><td>Random Close together</td><td>Move around each other</td></tr><tr><td>Gas</td><td>Random Far apart</td><td>Move quickly in all directions</td></tr></table>			Particle Arrangement	Particle Movement	Solid	Regular Close together	Vibrate about a fixed position	Liquid	Random Close together	Move around each other	Gas	Random Far apart	Move quickly in all directions
	Particle Arrangement			Particle Movement											
Solid	Regular Close together			Vibrate about a fixed position											
Liquid	Random Close together			Move around each other											
Gas	Random Far apart			Move quickly in all directions											
bonds	The forces holding particles together.														
transparency	The property of allowing light to pass through.														
translucency	The property of allowing light to partially pass through.														
hardness	A measurement of how hard something is.														
magnetism	Having the force that attracts to a magnet.														
electrical conductivity	The ability to allow electricity to pass through.														
thermal conductivity	The ability to allow heat to pass through.														
substance	A solid, liquid or gas with particular properties.	Dissolving													
mixture	A combination of substances which can be separated.	<div><div><p>Solute</p></div><div><p>Solvent</p></div><div><p>Solution</p></div></div> <p>Salt + Water = Saltwater Sugar + Tea = Sugary Tea</p>													
dissolve	To mix with a liquid to form a solution.														
soluble / insoluble	Can dissolve / Cannot dissolve.														
solvent	A liquid that can dissolve other substances.														
solution	A mixture where one substance is dissolved in a liquid.														
solubility	The measure of how soluble something is.														
reversible	A change that can go both ways.														
		Reversible Changes													
		<p>These are changes which can be reversed or undone. Examples include:</p> <p>Melting Freezing/solidification Evaporation Condensation Mixing Dissolving</p>													