



Year 5 – Spring 2 – Science – Pupil Knowledge Organiser



What do I already know?		What am I learning now?		
<ul style="list-style-type: none"> A mixture is a combination of different substances that are not joined together. Soluble materials have really small grains. These will form a solution with water. If a material is insoluble, it will not dissolve in water. Insoluble materials have hard and rough grains. These will form a mixture with water. We can make dissolving happen faster by stirring a solution or by using hot water. 		<ol style="list-style-type: none"> Can we plan an investigation using our prior learning? (WS) Can we separate salt, sand and water from a mixture? (WS) What makes a scientific conclusion? (WS) Can changes be reversed? Are all changes reversible? 		
Key Knowledge: Materials (Continued) Working Scientifically Focus		Key Skills: Working Scientifically	Key Vocabulary	
<p>Changing states of matter are the most common reversible changes.</p> <p>Melting is a reversible change. You can undo its effects by freezing the substance.</p> <p>Freezing is a reversible change. You can undo its effects by melting the substance.</p>	<p>Evaporating is a reversible change. You can undo its effects by condensing the substance.</p> <p>Condensation is a reversible change. You can undo its effects by evaporating the substance.</p> <p>Dissolving is a reversible change. You can undo its effects by evaporating and condensing the liquid.</p>	<p>The product of a chemical reaction will have different properties to the reactants.</p> <p>Cooking is an irreversible change. You cannot get the original ingredients back.</p> <p>Burning is also an irreversible change. The material cannot be returned to its original state.</p>	<p>soluble</p> <p>dissolve</p> <p>solution</p> <p>independent variable</p> <p>dependent variable</p> <p>control variable</p> <p>conclusion</p> <p>reversible</p> <p>irreversible</p> <p>chemical reaction</p>	<p>Dissolves in liquid.</p> <p>To break up into very tiny pieces and mix with a liquid.</p> <p>A liquid that has a solid dissolved into it.</p> <p>The thing you change in an investigation.</p> <p>The thing you measure in an investigation.</p> <p>The things you keep the same to make it a fair test.</p> <p>What you learn from the results of an investigation.</p> <p>A change that can be undone, like melting or freezing.</p> <p>A change that cannot be undone, like burning or cooking.</p> <p>When two or more substances (reactants) react and make something new (product).</p>