



St Mary's CE Primary Progression of Skills- KS2Chemistry

Skills Progression: Science Key Stage 2 Chemistry	Year 3	Year 4	Year 5	Year 6	End of Key Stage Expectations
Area 1 Materials		<p>States of Matter</p> <p>Compare and group materials together, according to whether they are solids, liquids or gasses.</p> <p>Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius.</p> <p>Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.</p>	<p>Properties and Changes of Materials</p> <p>Compare and group together everyday materials on the basis of their properties, including hardness, solubility, transparency, conductivity (electricity and thermal) and response to magnets.</p> <p>Know that some materials will dissolve in a liquid to form a solution, and describe how to recover a substance from a solution.</p> <p>Use knowledge of solids, liquids and gasses to decide how mixtures might be separated, including through filtering, sieving and evaporating.</p> <p>Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals wood and plastic.</p> <p>Demonstrate that dissolving, mixing and changes of state are reversible changes.</p>		<p>Describe the characteristics of different states of matter and group materials on this basis; and describe how materials change state at different temperatures, using this to explain everyday phenomena, including the water cycle (Year 4).</p> <p>Identify and describe what happens when dissolving occurs in everyday situations; and describe how to separate mixtures and solutions into their components (year 5).</p> <p>Identify, with reasons, whether changes in materials are reversible or not (year 5).</p>



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			Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.		
Area 2 Rocks	<p>Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.</p> <p>Describe in simple terms how fossils are formed when things that have lived are trapped within rock.</p> <p>Recognise that soils are made from rocks and organic matter.</p>				Group and identify materials, including rocks in different ways according to their properties, based on first-hand observation; and justify the use of different everyday materials for different uses, based on their properties.