

Properties and Changes of Materials UKS2 Year A		
Curriculum Area	Learning Objectives	Example Tasks
Art and Design		Alberto Guccometii
Design and Technology	<p>Know that food is grown, reared or caught in the UK, Europe and the wider world.</p> <p>Know how to prepare and cook savoury dishes using a heat source.</p> <p>Use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking</p> <p>Know that seasons affect the food available.</p> <p>Know how food can be processed into ingredients that can be eaten or used in cooking.</p> <p>Know that food and drink contain nutrients, fibre and water which are needed for health.</p>	<p>Sample vegetables and discuss</p> <p>Eat like a champ lessons/compare their recipe to the Eat well plate.</p> <p>Make Spicy Vegetable Pasta.</p>
English	<p>Write newspaper obituary</p> <p>Write several short stories in different genres</p>	
Science	<p>Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.</p> <p>Know that some materials will dissolve in liquid to form a</p>	<p>What is a material? - synthetic and natural.</p> <p>Describe the different materials using different properties.</p> <p>Design experiment and recording sheet to test each material for different properties</p> <p>Why has each material been chosen for its use?</p>

	<p>solution, and describe how to recover a substance from a solution.</p> <p>Use knowledge of solids, liquids and gases 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>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.</p>	<p>Recap solids, liquids and gases and their properties.</p> <p>Investigate whether different materials dissolve in water.</p> <p>Test how long it takes to dissolve the salt with different temperatures of water.</p> <p>Create line graph.</p> <p>Experiments about insulation and blubber gloves.</p> <p>Experiments - How could we use different methods to separate the different mixtures.</p> <p>Discuss cleaning dirty water.</p> <p>Reversible and irreversible changes</p> <p>Visit from Arctic Explorer.</p>
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