



## Science Map

Year:5

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Theme Links</b>	Ancient Egypt	Neil Armstrong	Chocolate	Smugglers of Wirral	Anglo Saxons and Vikings	Life cycles
<b>Science Unit</b>	Forces	Space crafts, including bicarb of soda rockets	Chocolate recipes	Separating treasure from sea water Materials	Viking life expectancy	Life cycles
<b>Area</b>	<p>explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object</p> <p>♣ identify the effects of air resistance, water resistance and friction, that act between moving surfaces</p>	<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>give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday</p>	<p>know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution</p> <p>demonstrate that dissolving, mixing and changes of state are reversible changes</p>	<p>use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating</p> <p>compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity</p>	<p>describe the changes as humans develop to old age.</p>	<p>describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird</p> <p>♣ describe the life process of reproduction in some plants and animals.</p>



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		<p>materials, including metals, wood and plastic 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>describe the movement of the Earth, and other planets, relative to the Sun in the solar system</p> <p>♣ describe the movement of the Moon relative to the Earth</p> <p>♣ describe the Sun, Earth and Moon as approximately spherical bodies</p> <p>♣ use the idea of</p>		<p>(electrical and thermal), and response to magnets</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>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>		
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		the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.				
<b>Opportunities for Working Scientifically</b>	Size of parachute with fair test focus planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	Water resistance on shaduf reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations	♣ taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate ♣ recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	Diagram showing separating materials recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	Skin exposed to sun expreiment	Should we have a wildlife area on our field? identifying scientific evidence that has been used to support or refute ideas or arguments.
<b>Opportunities for RWM</b>	How a Shaduf works	R – Chris Hadfield 'An Astronaut's Guide to Life' W – How a bicard rocket works	W – Recount of biscuit factory M – fraction calc for choc recipe	W – How to separate...	W – Why did Vikings have alower life expectancy than us?	Letter to persuade to have/not have wildlife area on field



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<b>Resources used</b> (e.g- Kent Planning, HT, Twinkl)						
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