



'Go and do Likewise' Luke 10:25, -37 The Parable of the Good Samaritan  
We live with love and compassion, seeking help in times of need

**Curriculum Map: Science Year 5**

	<b>Properties of Materials</b>	<b>Changes of materials</b>	<b>Earth and Space</b>	<b>Forces</b>	<b>Living things and their habitats</b>	<b>Animals including humans</b>
<b>Content</b> Declarative Knowledge 'I know'	<ul style="list-style-type: none"> <li>* Know the properties of materials.</li> <li>* Know about thermal conductors and thermal insulators.</li> <li>* Know about the hardness of materials.</li> <li>* Know materials that become soluble in water.</li> <li>* Know how mixtures could be separated by filtering, sieving, evaporating or magnets.</li> </ul>	<ul style="list-style-type: none"> <li>* Know how to use evaporation to recover the solute from a solution.</li> <li>* Recognise and describe reversible changes.</li> <li>* Understand chemical reactions and describe how we know new materials are made.</li> <li>* Understand rusting reactions.</li> <li>* Understand burning reactions.</li> <li>* Understand chemical reactions, including acids and bicarbonate of soda.</li> </ul>	<ul style="list-style-type: none"> <li>* Know about the solar system and its planets.</li> <li>* Understand the heliocentric model of the solar system.</li> <li>* Explain the Earth's movement in space.</li> <li>* Explain the earth rotation and night and day.</li> <li>* Explain the movement of the moon.</li> </ul>	<ul style="list-style-type: none"> <li>* explain gravity and the life and work of Isaac Newton</li> <li>*explain the connection between air resistance and parachutes</li> <li>*explain factors which affect an object's ability to resist water</li> <li>*understand the effects of friction on different surfaces</li> <li>*know about levers' pulley and gears</li> </ul>	<ul style="list-style-type: none"> <li>* Understand the life processes of a plant.</li> <li>* Understand the life cycles of mammals.</li> <li>* Compare the life cycles of insects and amphibians.</li> <li>* Understand the life cycle of birds and reptiles.</li> <li>* Know about the life and work of Jane Goodall and David Attenborough.</li> </ul>	<ul style="list-style-type: none"> <li>* Know the key stages of a mammals life cycle.</li> <li>* Know the gestation period of some mammals.</li> <li>* Know about foetal development</li> <li>* Know about the changes experienced during puberty.</li> <li>* Know about the changes humans may experience during adulthood and old age.</li> </ul>
<b>Skills</b> Procedural Knowledge 'I know how to'	<ul style="list-style-type: none"> <li>* Plan different types of scientific inquiries to answer questions, including recognising and controlling</li> </ul>	<ul style="list-style-type: none"> <li>* Report and present findings from inquiries, including conclusions, causal relationships and explanations of under degree of trust</li> </ul>	<ul style="list-style-type: none"> <li>* Identify scientific evidence that's been used to support or refute ideas or arguments.</li> </ul>	<ul style="list-style-type: none"> <li>* Identify scientific evidence that's been used to support or refute ideas or arguments.</li> </ul>	<ul style="list-style-type: none"> <li>* Plan different types of scientific inquiries to answer questions, including recognising and controlling</li> </ul>	<ul style="list-style-type: none"> <li>* Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter</li> </ul>

	<p>variables when necessary.</p> <p>* Take measurements, using a range of scientific equipment, with increasing accuracy and precision, Take repeat readings when appropriate.</p> <p>* Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar charts and line graphs.</p> <p>* Report and present findings from inquiries, including conclusions, causal relationships and explanations of under degree of trust in results, in oral and written forms such as displays and other presentations</p> <p>* Use test results to make predictions to set up further comparative and fair tests.</p>	<p>in results, in oral and written forms such as displays and other presentations</p> <p>* Plan different types of scientific inquiries to answer questions, including recognising and controlling variables when necessary.</p> <p>* Identify scientific evidence that has been used to support or refute ideas or arguments.</p> <p>* Use test results to make predictions to set up further comparative and fair tests.</p>	<p>* Take measurements, using a range of scientific equipment, with increasing accuracy and precision, take repeat readings when appropriate.</p> <p>* Report and present findings from inquiries, including conclusions, causal relationships and explanations of under degree of trust in results, in oral and written forms such as displays and other presentations</p> <p>* Use test results to make predictions to set up further comparative and fair tests.</p>	<p>* Report and present findings from inquiries, including conclusions, causal relationships and explanations of under degree of trust in results, in oral and written forms such as displays and other presentations</p> <p>* Plan different types of scientific inquiries to answer questions, including recognising and controlling variables when necessary.</p>	<p>variables when necessary.</p> <p>* Report and present findings from inquiries, including conclusions, causal relationships and explanations of under degree of trust in results, in oral and written forms such as displays and other presentations</p> <p>* Identify scientific evidence that has been used to support or refute ideas or arguments.</p>	<p>graphs, bar charts and line graphs.</p> <p>* Report and present findings from inquiries, including conclusions, causal relationships and explanations of under degree of trust in results, in oral and written forms such as displays and other presentations</p> <p>* Take measurements, using a range of scientific equipment, with increasing accuracy and precision, take repeat readings when appropriate.</p> <p>* Identify scientific evidence that has been used to support or refute ideas or arguments.</p>
<b>Vocabulary</b>	Conductive, magnetic, durable, transparent,	Pure substance, solute, solvent, solution,	Terrestrial planet, gas giant planet, solar	Gravity, astronomy, wait, mask on air	Reproduction, asexual, Fertilisation., tuber,	Foetus, dependent, adolescent, puberty,



	DT – choose best material for specific purpose	DT – choose best material for specific purpose	History – historical misconceptions about the Earth and scientists who challenged these	DT - levers and pulleys	PSHE – changing me units	PSHE – changing me units
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