

Year 5: Science Medium Term Plan

Au tu mn	<p style="text-align: center;"><u>Living things and their habitats</u></p> <p>Describe the differences in the life cycles of a mammal, an amphibian and insect and a bird.</p> <p>Describe the life process of reproduction in some plants and animals.</p>	<p style="text-align: center;"><u>Forces</u></p> <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>Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.</p>
Spr ing	<p style="text-align: center;"><u>Properties and changes of materials</u></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>Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.</p> <p>Use prior knowledge 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 uses of everyday materials.</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.</p>	<p style="text-align: center;"><u>Humans and the environment</u></p> <p>Explain key scientific concepts, such as climate change, global warming and the greenhouse gas effect.</p> <p>Investigate the effects of climate change and oil spills.</p> <p>Investigate endangered animals and invasive species</p>
Su m me r	<p style="text-align: center;"><u>Earth and Space</u></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 the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.</p>	<p style="text-align: center;"><u>Animals including humans</u></p> <p>Looking at: birth, growth and old age</p> <p>Describe the changes as humans develop to old age.</p>

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Working Scientifically

- Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- 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
- Using test results to make predictions to set up further comparative and fair tests
- 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
- Identifying scientific evidence that has been used to support or refute ideas or arguments