Science Curriculum Objectives - Year 5

The objectives below are from the National Curriculum. They are grouped into science units that coincide with our planning scheme Science Bug.

| (K) Describe the changes as humans develop to old age. (K) Describe the life process of reproduction in some plants and animals. (WS) Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary (WS) Islaing measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate (WS) 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 (WS) Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs (WS) Identifying scientific evidence that has been used to support or refute ideas or arguments. Earth and Space Earth and Space (K) Describe the Sun, Earth and Moon as approximately spherical bodies (K) Describe the movement of the Earth, and other planets, relative to the Sun in the solar system (K) Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. (K) Describe the movement of the Moon relative to the Earth (WS) Identifying scientific evidence that has been used to support or refute ideas or arguments. (WS) Illuming different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary (WS) Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs (WS) Was planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary (WS) Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs (WS) Taking measurements, u | Life Cycles | • (K) Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird |
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| (WS) Using test results to make predictions to set up further comparative and fair tests | | • (WS) Identifying scientific evidence that has been used to support or refute ideas or arguments. |
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| | (WS) Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary |
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| Materials | (K) 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 |
| | • (K) Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic |
| | (WS) Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs |
| | (WS) 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 |
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| | (WS) Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate |
| | (WS) Using test results to make predictions to set up further comparative and fair tests |
| Forces | (K) Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object |
| | • (K) Identify the effects of air resistance, water resistance and friction, that act between moving surfaces |
| | • (K) Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. |
| | (WS) Identifying scientific evidence that has been used to support or refute ideas or arguments. |
| | (WS) Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate |
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