

Science Year 5

Living Things and their Habitats

I can describe the life process of reproduction in some plants and animals

I can describe the differences in life cycles of mammals, amphibians, insects and birds

I can explain that unsupported objects fall towards the Earth because of the force of gravity

I can identify the effects of air resistance, water resistance and friction

I can recognise the effects of air resistance, water resistance and friction

Forces

I can describe the changes as humans develop to old age

I can explain that some changes result in the formation of materials, and that this kind of change is not usually reversible

I can demonstrate that dissolving, mixing and changes of state are reversible changes

Animals including humans

I can recognise that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution

Properties and Changes to Materials

I can use knowledge of solids, liquids, and gases to decide how mixtures might be separated through filtering, sieving and evaporating

I can compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity and response to magnet

I can give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials including metals, wood and plastic

Earth and Space

I can talk about Earth's rotation to explain day and night and the apparent movement of the Sun across the sky

I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables and bar and line graphs

I can use straightforward scientific evidence to answer questions or to support their findings.

I can describe how the moon moves in relation to the earth

I can describe the Sun, Earth and Moon as approximately spherical

Working scientifically

I can identify differences, similarities or changes related to simple scientific ideas and processes.

I can take measurements, using a range of scientific equipment with increasing accuracy and precision, taking repeat readings where appropriate

I can describe the movement of the Earth and other planets in our solar system relative to the Sun

I can report and present findings, including conclusions, causal relationships and explanations of results.

I can report and present findings in oral and written forms such as displays and other presentations.

I can identify scientific evidence that has been used to support or refute ideas or arguments

I can use test results to make predictions to set up further comparative and fair tests

I can plan different types of scientific enquiry to answer questions including recognising and controlling variables where necessary