

What do you know? Science



Year 5

Working Scientifically
I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
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I can record data and results of increasing complexity, using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
I can report and present 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.
I can use test results to make predictions to set up further comparative and fair tests.
Properties and Changes of Materials
I can give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
I can know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.
I can use knowledge of solids, liquids and gases to decide how mixtures might be separated, including 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 (electrical and thermal), and response to magnets.
I can demonstrate that dissolving, mixing and changes of state are reversible changes.
I can 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.
Forces
I can explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
I can identify the effects of air resistance, water resistance and friction that act between moving surfaces.
I can recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.
Earth and Space
I can describe the movement of the Earth, and other planets, relative to the Sun in the solar system.
I can describe the movement of the Moon relative to the Earth.
I can describe the Sun, Earth and Moon as approximately spherical bodies

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I can use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.

Animals including Humans

I can describe the changes as humans develop to old age

Living Things and their Habitats

I can describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.

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