

Upper Key Stage 2 Science

	Biology	Chemistry	Physics
	Living things and their habitats humans	Properties and changes of materials	Earth and Space Forces
Year 5	 Know and be able to describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Know and describe the changes as humans develop to old age. Freproduction in some plants and animals. 	 Know the comparison between everyday materials on the properties, including their hardness, solubility, transparer (electrical and thermal), and response to magnets. Know that some materials will dissolve in liquid to form describe how to recover a substance from a solution. To use knowledge of solids, liquids and gases to decide he be separated, including through filtering, sieving and evape. Know and give reasons, based on evidence from compart for the particular uses of everyday materials, including meplastic. Know that dissolving, mixing and changes of state are revenue to explain that some changes result in the formation of that this kind of change is not usually reversible, including associated with burning and the action of acid on bicarbo 	 Know and describe the movement of the Earth, and other planets, relative to the Sun in the solar system. Know and describe the movement of the Moon relative to the Earth. Know and describe the Sun, Earth and Moon as approximately spherical bodies. Know and explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Know the effects of air resistance, water resistance and friction, that act between moving surfaces. Know that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.
		Biology	Physics Physics
	Living things and their habitats Animals,	including humans Evolution and Inheritance	Light Electricity
Year 6	parts of circular described into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals. Know reasons for classifying plants and animals based on specific characteristics	 Know that living things change over time. Know that fossils provide information about living things that inhabited the Earth millions of years ago. Know that fossils provide information about living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that lossils provide information about living things that inhabited the Earth millions of years ago. Know that fossils provide information about living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know that living things that inhabited the Earth millions of years ago. Know how animals and plants are adapted to suit their environment. 	 Know that light appears to travel in straight lines. To use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. Know that the brightness of a lamp or the volume of a buzzer is associated with the number and voltage of cells used in the circuit. Know and compare reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. To use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

- 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



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