

Dale Hall Primary School

Skills Progression overview



Subject: Science

UKS2 Year 5 &6 Topic Coverage and Progression

	Year 5	Year 6
Animals,	Describe the changes as humans develop to old age. Understand the changes	Identify and name using scientific vocabulary the main parts of the human circulatory system,
including	experienced in puberty. (Male and female changes)	and describe the functions of the heart, blood vessels and blood.
humans		Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.
		Describe the ways in which nutrients and water are transported within animals, including humans.
Evolution and inheritance		Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.
		Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.
		Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
Living things	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and
and their	Describe the life process of sexual and asexual reproduction in some plants and	animals.
habitats	animals.	
		Give reasons for classifying plants and animals based on specific characteristics.
Light		Recognise that light appears to travel in straight lines.
		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
		Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
		Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.
Forces &	Explain that unsupported objects fall towards the Earth because of the force of	
Magnets	gravity acting between the Earth and the falling object.	
	Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.	
	Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.	



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	Pupils should be able to explore the effects of levers, pulleys and simple machines on movement. Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.	
Electricity		Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches Use recognised symbols when representing a simple circuit in a diagram. (bulb, switch, buzzer, cell, wire)
Earth & Space	Describe the movement of the Earth and other planets relative to the sun in the solar system. Describe the movement of the Moon relative to the Earth. Describe the sun, Earth and moon as approximately spherical bodies. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	
Materials	Independently, 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.	
	Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution using scientific vocabulary (dissolve, solution, evaporation, condensation) Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. Demonstrate that dissolving, mixing and changes of state are reversible changes. 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. Use the scientific vocabulary: burning and rusting to describe some irreversible changes.	



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