

NATIONAL CURRICULUM OVERVIEW SCIENCE

	Science UKS2 NC Objectives	Mission Control	Go With the Flow
Earth and Space	Describe the movement of the Earth 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		
Animals, Including Humans	Describe the changes as humans develop to old age		
	Identify and name the main parts of the human circulatory system, and explain the functions of the heart, blood vessels and blood		
	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.		

	Science UKS2 NC Objectives	"I Have a Dream.."	Wars of the World
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 (LKS2)		
	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.		
Light	Understand 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.		



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SCIENCE

	Science UKS2 NC Objectives	Global Warming
Properties and Changes of Materials	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.	
	Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution	
	Compare and group together everyday materials based on evidence from comparative and fair tests, including their hardness, solubility, conductivity (electrical and thermal), and response to magnets	
	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	

	Science UKS2 NC Objectives	Full of Beans	A World of Bright Ideas
Electricity	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		
	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit		
	Use recognized symbols when representing a simple circuit in a diagram.		
Forces	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 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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	Science UKS2 NC Objectives	"I Have a Dream..."
Living Things and Their Habitats	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird	
	Describe the life process of reproduction in some plants and animals	
	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals	
	Give reasons for classifying plants and animals based on specific characteristics	

