## UKS2 Cycle B

## **Working Scientifically**

Scientific enquiry Practical investigation Communicating Interpreting evidence				
	With increasing confidence selects	Communicating  Decides how to record data from a choice of familiar approaches.	Looks for different	
Explores ideas and raises different kinds of relevant	and plans the most appropriate type of scientific enquiry for answering a scientific question.	Uses relevant scientific language and illustrations to discuss and communicate their ideas. Is sometimes able to justify their scientific ideas.	causal relationships in their data and begins to	
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fact.	accurately.			

## UKS2 Cycle B

## **Knowledge and Understanding**

Ancient Greeks (Autumn 1 & 2)	Amazing Amazon (Spring 1 & 2)	World War Two (Summer 1 & 2)	
Earth and Space	Living things and their habitats	Animals, including humans	
Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.	Describes the differences in the life cycles of a mammal, an amphibian, an insect and a bird.	Describes the changes as humans develop to old age.	
Describe the movement of the Moon relative to the Earth.	Describes the life process of reproduction in some plants and animals.	Draws a timeline to indicate stages in the growth and development of humans.	
Describe the Sun, Earth and Moon as approximately spherical bodies.  Uses the idea of the Earth's rotation to explain day and night	Could work scientifically by: observing and comparing the life cycles of plants and animals in their local environment with other plants and animals around the world (in the rainforests,	Learns about the changes experienced in puberty.  Could work scientifically by researching the	
and the apparent movement of the Sun across the sky.	oceans, deserts and in prehistoric times), asking pertinent questions, and suggesting reasons for similarities and differences.	gestation periods of other animals and comparing them with humans.	
		Could work scientifically by finding out and recording the length and mass of a baby as it grows.	
		Identifies and names the main parts of the human circulatory system and describe the functions of the heart, blood vessels and blood.	
Light	Forces	Recognises the impact of diet, exercise, drugs and lifestyle on the way their bodies function.	
Recognises that light appears to travel in straight lines.	I can identify the effects of air resistance, water resistance and	Describes the ways in which nutrients and water	
Uses the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.	friction	are transported within animals, including humans.	
Explains that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.	I can recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect	Could work scientifically by: investigating how heartbeat varies with exercise.	
Uses the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.			
Could work scientifically by: designing and making a periscope and using the idea that light appears to travel in straight lines to explain how it works.			