

George Fentham  
Subject Leader Curriculum Map  
Science

WS	Chemistry (C)	Physics (P)	Working Scientifically (WS)		Equipment (E)	Science Capital (SC)						
Science	Autumn		Spring		Summer							
	1	2	1	2	1	2						
<p><b>Equipment (E):</b>  Pupils will have access to a wide range of general science resources such as pipettes, beakers and scales in addition to the resources specific to the unit of work undertaken (for example, torches, different materials and shadow beams for Y3 Light and Shadow unit). Through their primary education journey, pupils will have their skills in using scientific equipment developed so that they become increasingly independent as they progress through the year groups.</p> <p><b>Working Scientifically (WS)</b>  Across all topics, children will be learning to work scientifically - using and developing investigation skills, including observation, pattern-seeking, fair and comparative testing, classification and identification.</p>												
<b>Nursery &amp; Reception</b>	<p><b>Early Learning Goal: Understanding the World - The Natural World</b></p> <ul style="list-style-type: none"> <li>Explore the natural world around them, making observations and drawing pictures of animals and plants.</li> <li>Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.</li> <li>Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</li> </ul> <p>Science learning will be threaded through Nursery and Reception topics and learning themes.</p>											
<p><b>Note:</b>  Where possible, each half-term has been allocated a specific science topic. However, these units of work may be longer than the allocated half-term and could subsequently either start at the tail end of the previous half-term or could possibly continue into the next half-term.</p>												
<b>Year 1</b>	'Weather and the seasons' are covered throughout Y1 <span style="background-color: #FF0000; color: white; padding: 2px;">P</span>											
	Everyday Materials (6)		Seasonal Changes (6)		Identifying Animals (7)		My Body (7)		Identifying Plants (6)		Ocean animals (3)	
	C	E	WS	P	WS	B	WS	B	WS	E	B	
<p><b>Additional equipment: magnifying glasses for observation activities</b></p>												

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<b>Year 2</b>	Growing Plants (5)		Living in Habitats (6)			Exploring Everyday Materials (7)			Growth and Survival (7)		The Secret World of Plants (5)		Super Scientists (2) -Our senses and reflexes -What makes us ill?	
	B	WS	B	E	WS	C	WS	SC	B	WS	B	SC	SC	
<b>Additional equipment:</b> + magnifying glasses for observation and sketching activities														
<b>Year 3</b>	Rocks, Fossils and Soils (7)		Light and Shadow (6)			Forces and Magnets (5)		How Plants Grow (6)		Animals including humans - health & movement (8)		What do Scientists do? (3) -Scientific method - Scientific enquiry - Planning a comparative test		
	C	WS	P	WS	E	P	WS	B	WS	B	WS	B	WS	
<b>Additional equipment:</b> + magnifying glasses for observation and sketching activities + dataloggers for measuring light + digital technology (virtual reality resources)														
<b>Year 4</b>	Eating and Digestion (6)		Circuits and Conductors (6)			States of Matter (7)		Changing Sound (7)		Living in Environments (6)		What do Scientists do? (3) -Conclusions - Hypothesis - Recording results		
	B	WS	P	WS	C	WS	P	WS	E	B	WS	SC		
<b>Additional equipment:</b> + magnifying glasses for observation and sketching activities + dataloggers for measuring sound + digital technologies (virtual reality resources)														

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<b>Year 5</b>	Forces in Action (6) Great British Scientists Newton's law			Earth and Space (6)		Great British Scientists - Hawking (Blak holes and gravity)			Properties and Changes of Materials (7)		Life Cycles (6)			Changes and Reproduction (6)	
	P	WS	SC	P	WS	SC	C	WS	C	WS	B	WS	E	B	WS
<b>Additional equipment:</b> + microscopes for observation activities + digital technologies (virtual reality resources)															
<b>Year 6</b>	Seeing Light (7)			Evolution and Inheritance (6)			Classifying organisms (6)		Healthy Bodies (7)			Changing Circuits (5)		Great British Scientists For example: -Anning, Wallace and Darwen (Evolution) -Fleming (Antibiotics)	
	P	WS	E	B	WS	E	B	WS	B	WS	E	P	WS	E	SC
<b>Additional equipment:</b> + microscopes for observation and sketching activities + digital technologies (virtual reality resources)															