

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>Equipment (E): 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>Working Scientifically (WS) Across all topics, children will participate in a variety of engaging investigations designed to develop their disciplinary knowledge. They will learn how to work scientifically across all the different types of enquiry skills, which include observation, pattern-seeking, fair and comparative testing, classification and identification, and research using secondary sources.</p> <p>Enrichment Dedicated time has been allocated in the George Fentham School science provision for every class to experience an enrichment opportunity in the form of either a school trip, a special visitor connected to one the year group's units of work or a nationally organised event such as Protecting our Planet day. Additionally, every class will participate in a whole school science event linked to British Science Week. Throughout the units of work, children will learn about different scientists.</p>						
<p>Nursery & Reception</p> <p>Science is primarily delivered through 'Understanding the World' although there are links within other units. For example, Children will explore seasonal changes, the weather and textures of materials. Through the 'Physical Development' unit, children will learn about their bodies, hygiene and keeping themselves safe.</p> <p>Science learning will be threaded through Nursery and Reception topics and learning themes. Every half-term, Reception children will experience an exciting science week focussed on their current topic.</p>						
<p>Note: 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>						

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Year 1	'Weather and the seasons' are covered throughout Y1													
	Seasonal Changes (6)			Everyday Materials (6)			Identifying Animals (8)		My Body (7)		Identifying Plants (8)			Scientist focus (3)
	P	E	WS	C	WS	E	B	WS	B	WS	B	WS	E	B
<p>Progression in equipment used: magnifying glasses for observation activities simple resources for measurement</p>														
Year 2	Exploring Everyday Materials (8)			Growing Plants (6)		Growth and Survival (7)			Living in Habitats (6)		Developing Scientists (7)		Scientist focus (4)	
	C	WS	SC	B	WS	B	E	WS	B	WS	WS		SC	
<p>Progression in equipment used: + magnifying glasses for observation and sketching activities + equipment for measuring + digital technology</p>														

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Year 3	Rocks, Fossils and Soils (7)	Light and Shadow (7)			Forces and Magnets (5)		How Plants Grow (7)		Animals including humans - health & movement (8)		Scientist focus (3)	
	C	WS	P	WS	E	P	WS	B	WS	B	WS	SC
<p>Progression in equipment used:</p> <ul style="list-style-type: none"> + magnifying glasses for observation and sketching activities + dataloggers for measuring light + digital technology + equipment for measuring with greater accuracy (inc force meters) 												
Year 4	Circuits and Conductors (7)	States of Matter (7)			Living in Environments (7)		Eating and Digestion (7)		Changing Sound (7)		Scientist focus (2)	
	P	WS	C	WS	B	WS	B	WS	P	WS	E	SC
<p>Progression in equipment used:</p> <ul style="list-style-type: none"> + magnifying glasses for observation and sketching activities + dataloggers for measuring sound + digital technologies + equipment for measuring with greater accuracy + electrical equipment (circuits) 												

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Year 5	Forces in Action (6) Isaac Newton (2)			Earth and Space (6)		Properties and Changes of Materials (7)		Life Cycles (6)		Scientist focus (3)	Changes and Reproduction (6)			
	P	WS	SC	P	WS	C	WS	C	WS	SC	B	WS		
<p>Progression in equipment used:</p> <ul style="list-style-type: none"> + microscopes for observation activities + digital technologies + science specific resource + equipment for measuring with greater accuracy 														
Year 6	Classifying Organisms (6)			Healthy Bodies (7)			Evolution & Inheritance (6)		Seeing Light (7)			Changing Circuits (5)		Scientist focus (2)
	P	WS	E	B	WS	E	B	WS	B	WS	E	P	WS	E
<p>Progression in equipment used:</p> <ul style="list-style-type: none"> + microscopes for observation and sketching activities + digital technologies + science specific resource + equipment for measuring with greater accuracy 														