






Science 8 Year Overview





















Intent: To stimulate the natural curiosity, knowledge and understanding of all children about the world they live in.

'Working scientifically' must **always** be taught through and clearly related to the teaching of substantive science content in the programme of study.

Units of Study:			Key Skills:				
Biology	Chemistry	Physics	Observing over time 	Pattern seeking 	Identifying, classifying and grouping 	Comparative and fair testing 	Researching using secondary sources 
<ul style="list-style-type: none"> Animals Including Humans Plants All Living Things and Their Habitats Evolution and Inheritance 	<ul style="list-style-type: none"> Materials Rocks and Fossils States of Matter 	<ul style="list-style-type: none"> Earth and Space Forces and Magnets Light Sound Electricity 					







































	Autumn	Spring	Summer
Pre-School	<ul style="list-style-type: none"> Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. 	<ul style="list-style-type: none"> Talk about the differences between materials and changes they notice. Begin to understand the need to respect and care for the natural environment and all living things Explore and talk about different forces they can feel 	<ul style="list-style-type: none"> Plant seeds and care for growing plants Understand the key features of the life cycle of a plant and animal
Rec	<ul style="list-style-type: none"> Explore the natural world around them. Understand the effect of changing seasons on the world around them Describe what they see, feel and hear whilst outside. 	<ul style="list-style-type: none"> Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. (ELG) 	<ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants (ELG) 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. (ELG)

Key Stage 1: The principal focus of science teaching in key stage 1 is to enable pupils to experience and observe phenomena, looking more closely at the natural and humanly-constructed world around them. Pupils should read and spell scientific vocabulary at a level consistent with their increasing word reading and spelling knowledge at key stage 1.

Year 1:	Earth and space (Physics) Primary skill: Observing over time Secondary skill: Pattern seeking  	Earth and space (Physics) Primary skill: Observing over time Secondary skill: Pattern seeking  	Earth and space (Physics) Primary skill: Observing over time Secondary skill: Pattern seeking  
	Materials (Chemistry) Primary skill: Identifying, classifying and grouping Secondary skill: Comparative and fair testing  	Animals including humans (Biology) Primary skill: Identifying, classifying and grouping Secondary skill: Pattern seeking  	Plants (Biology) Primary skill: Identifying, classifying and grouping Secondary skill: Observing over time  
Year 2	Animals including humans (Biology) Primary skill: Identifying, classifying and grouping Secondary skill: Pattern seeking  	All living things and their habitats (Biology) Primary skill: Identifying, classifying and grouping Secondary skill: Making links using secondary sources  	Materials (Chemistry) Primary skill: Identifying, classifying and grouping Secondary skill: Comparative and fair testing  
			Plants (Biology) Primary skill: Comparative and fair testing Secondary skill: Observing over time  

Lower Key Stage 2: The principal focus of science teaching in lower key stage 2 is to enable pupils to broaden their scientific view of the world around them.

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Pupils should read and spell scientific vocabulary correctly and with confidence, using their growing word reading and spelling knowledge.						
Year 3	Rocks and fossils (Chemistry) Primary skill: Identifying, classifying and grouping Secondary skill: Making links using secondary sources	 	Animals including humans (Biology) Primary skill: Identifying, classifying and grouping Secondary skill: Pattern Seeking	 	Light (Physics) Primary skill: Comparative and fair testing Secondary skill: Pattern seeking	 
	Plants (Biology) Primary skill: Observing over time Secondary skill: Identifying, classifying and grouping	 			Forces and Magnets (Physics) Primary skill: Identifying, classifying and grouping Secondary skill: Pattern seeking	 
Year 4	States of matter (Chemistry) Primary skill: Comparative and fair testing Secondary skill: Observing over time	 	Animals including humans (Biology) Primary skill: Identifying, classifying and grouping Secondary skill: Making links using secondary sources	 	All living things and their habitats (Biology) Primary skill: Identifying, classifying and grouping Secondary skill: Making links using secondary sources	 
	Sound (Physics) Primary skill: Identifying, classifying and grouping Secondary skill: Pattern seeking	 			Electricity (Physics) Primary skill: Comparative and fair testing Secondary skill: Pattern Seeking	 
UPPER KEY STAGE 2						
The principal focus of science teaching in upper key stage 2 is to enable pupils to develop a deeper understanding of a wide range of scientific ideas. Pupils should read, spell and pronounce scientific vocabulary correctly.						
Year 5	Materials (Chemistry) Primary skill: Comparative and fair testing Secondary skill: Observing over time	 	Forces and magnets (Physics) primary skill: Comparative and fair testing Secondary skill: Pattern seeking	 	Living things and their habitats (Biology) Primary skill: Making links using secondary sources Secondary skill: Pattern seeking	 
			Earth and space (Physics) Primary skill: Making links using secondary sources Secondary skill: Pattern seeking	 	Animals including humans (Biology) Primary skill: Observing over time Secondary skill: Making links with secondary sources	 
Year 6	Electricity (Physics) Primary skill: Comparative and fair testing Secondary skill: Pattern seeking	 	Animals including humans (Biology) Primary skill: Making links using secondary sources Secondary skill: Comparative and fair testing	 	Revision of Key Stage Two Programme of Study prior to end of Key Stage Two assessments.	
	Light (Physics) Primary skill: Comparative and fair testing Secondary skill: Pattern seeking	 	Living things and their habitats (Biology) Primary skill: Identifying, classifying and grouping Secondary skill: Making links using secondary sources	 		
	Evolution and inheritance (Biology) Primary Skill: Making links using secondary sources Secondary skill: Identifying, classifying and grouping	