

## Science Long term plan 2023-2024

2023- 2024 Year A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Puffins (Y1/2)	Animals, including humans NC Y1 Identify and name a variety of common animals, inc fish, amphibians, reptiles, birds and mammals. Identify and name variety of common animals that are carnivores, herbivores and omnivores. Describe and compare structure. Identify, name & label basic parts and associate with senses. Longitudinal Study How does the weather cha	Everyday Materials NC Y1 Identify variety of everyday materials, describe physical properties, compare & group.	Seasonal Changes NC Y1 Observe changes across four seasons, observe and describe weather associated with seasons and how day length varies.	Plants NC Y1 Identify & name a variety of common wild and garden plants, inc. deciduous & evergreen. Identify & describe the basic structure of common flowering plants inc. trees.	Animals, including human Identify and name a variet fish, amphibians, reptiles, Identify and name variety are carnivores, herbivores Describe and compare strulabel basic parts and associated associated in the compare strulabel basic parts and associated in the compare strulable in the compare structure in the co	y of common animals, inc birds and mammals. of common animals that and omnivores. ucture. Identify, name &	
Kingfishers (Y2/3)	Forces (Part of Forces and Magnets) NC Y3 Compare how things move on different surfaces.	Use of everyday materials NC Y2 (2023 only) Identify & compare the suitability of a variety of everyday materials . Find out how shapes of solid objects can be changed.	Animals, including humans NC Y3 Identify that animals need the right types and amount of nutrition, cannot make own food. Identify that humans and other animals have skeleton and muscles for support, protection and movement		Plants NC Y2 Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.		
	Longitudinal Study How does a shadow change over a day and through the year?						



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Sparrowhawks		Sound		Animals including	Electricity	States of Matter
•		NC Y4		humans	NC Y4	NC Y4
(Y3/4)		How sounds are made,		NC Y4	Identify common electric	Compare & group
		linked to vibration		Describe simple	appliances, construct	materials together as
		travelling through		functions of basic parts	simple circuit, naming	solids, liquids and gases.
		medium to ear, find		of digestive system.	parts, explore open &	Observe changing states
		patterns between pitch		Identify different types	closed circuits, testing	when cooled/heated &
		and features of object,		of teeth in humans &	with a lamp, recognise	measure temperature.
		find patterns between		functions, construct &	good conductors and	Identify the role of
		volume and strength of		interpret food chains.	insulators.	evaporation and
		vibration, fainter sound,				condensation in water
		greater the distance.				cycle.
	Longitudinal Study					
	What plants live in the school ground over the year? We are using quadrants to sample what plants live in the school grounds, and how this differs in autumn, winter,					
	spring & summer.					
Housemartins	Electricity	Properties and changes	Forces	Animals, including	Living things and their hab	oitats
	NC Y6	of materials	NC Y5	humans	NC Y5	
(Y5/6)	Associate brightness of	NC Y5	Explain how the force of	NC Y5	Describe the life cycles of a mammal, amphibian, an	
	lamp or volume of buzzer	Compare & group based	gravity cause	Describe animals	insect and a bird	
	with the number &	on properties; know	unsupported objects to	change with old age	Describe the life process of	f reproduction in some
	voltage of cells in circuit.	some dissolve to form a	fall to Earth; identify	Create a timeline of	plants and animals	
	Compare & give reasons	solution and describe	effects of air & water	stages of growth &		
	for variations in how	how to recover	resistance and friction;	development in		
	components function,	substance from solution;	recognise that some	humans, inc. puberty.		
	inc. brightness of bulbs,	use knowledge to	mechanisms inc, levers,	Work scientifically		
	volume, on/off position	separate mixtures e.g.	pulleys and gears allow a	research gestation		
	of switch. Use recognise	with filtering, sieving, 7	smaller force to have a	periods of other		
	symbols when	evaporating	greater effect.	animals, tracking length		
	representing simple	Give evidence from		& mass of baby as it		
	circuit in a diagram.	comparative & fair test		grows.		
		for the uses of materials				
		Demonstrate reversible				
		changes; explain that				
		some changes create a				



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	new materials, usually irreversible.					
Longitudinal Study  How much do we grow during the year? House martins are measuring height, arm span, hand span and foot length each term. At the end of the year, they will calculate how much they have grown and compare their individual growth to the growth of the class.						