

Long Term Plan and progression outline:

KS1/Ye	KS1/ Year 2						
Lower	Year 3	Plants	Animals,		Light		
Кеу			including Humans				



Long Term Plan and progression outline:

Stage	Taught content:	Identify and	 identify that 	•recognise that	at
2	Knowledge/Skills	,	animals, including	they need ligh	
		functions of	humans, need the	order to see	
		different	right types and		a t
		parts of	amount of	things and tha	JE
		flowering	nutrition, and that	dark is the	
		plants: roots,	they cannot make	absence of lig	ht
		stem/trunk,	their own food;	 notice 	:
		leaves and	they get nutrition	that lig	ght
		flowers	from what they	is	
		 explore the 	eat	reflect	ted
		requirements	 identify that 	from	
		of plants for	humans and some	surface	
		life and	other animals		
		growth (air,	have skeletons	 recogn 	nise
		light, water,	and muscles for	that	
		nutrients	support,	shadov	WS
		from soil,	protection and	are	
		and room to	movement	formed	d
		grow) and		when t	the
		how they		light fr	rom
		vary from		a light	
		plant to plant		source	
		 investigate 			
		the way in which water		blocke	b;
		is		by an	
		15			



Long Term Plan and progression outline:

	 within plants explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. 		•	object find patterns in the way that the size of shadows change
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Long Term Plan and progression outline:

Year 4	Living Things and Their Habitats	Animals, including Humans	States of Matter	Sound	Electricity
Taught content: Knowledge/Skills	 recognise that living things can be grouped in a variety of ways explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment recognise that environments can change and that this can sometimes pose 	 describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth in humans and their simple functions construct and interpret a variety of food 	 compare and group materials together, according to whether they are solids, liquids or gases observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) identify the part played by evaporation and 	 identify how sounds are made, associating some of them with something vibrating recognise that vibrations from sounds travel through a medium to the ear find patterns between the pitch of a sound and features of the object that produced it find patterns between the volume of a sound and the 	 identify common appliances that run on electricity construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit recognise some common conductors and insulators, and associate metals with being good conductors
		chains, identifying	condensation in the water cycle	strength of the	



Long Term Plan and progression outline:

producers, predators and prey	and associate the rate of evaporation with temperature	vibrations that produced it • recognise that sounds get fainter as the distance from the sound source increases	



Long Term Plan and progression outline:

	Science – Program	me of Study KEY STAG	E 2		
Upper Key Stage	Year 5	Living Things and Their Habitats	Animals, including Humans (Y5)	Properties and Changes of Materials	Forces and Magnets
2	Taught content: Knowledge/Skills	 describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird describe the life process of reproduction in some plants and animals 	• describe the changes as humans develop to old age	 compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution 	 explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object identify the effects of air resistance, water resistance and friction, that act between moving surfaces recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect



Long Term Plan and progression outline:

		 use knowledge 	
		of solids, liquids	
		and gases to	
		decide how	
		mixtures might be	
		separated,	
		including through	
		filtering, sieving	
		and evaporating	
		• give reasons,	
		based on	
		evidence from	
		comparative and	
		fair tests, for the	
		particular uses of	
		everyday	
		materials,	
		including metals,	
		wood and plastic	
		demonstrate	
		that dissolving,	
		mixing and	
		changes of state	
		are reversible	
		changes	
		• explain that	
		some changes	
		result in the	
	1		



Long Term Plan and progression outline:

			formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda	
Year 6	Living Things and Their Habitats	Animals, including Humans (Y6)	Electricity	
Taught content: Knowledge/Skills	 describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- 	 identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood recognise the impact of diet, exercise, drugs 	 associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit compare and give reasons for variations in how components function, including the 	



Long Term Plan and progression outline:

Science Key Stage Two

organisms,	and lifestyle on	brightness of	
plants and	the way their	bulbs, the	
animals	bodies function	loudness of	
 give reasons 	 describe the 	buzzers and the	
for classifying	ways in which	on/off position of	
plants and	nutrients and	switches	
animals based	water are	 use recognised 	
on specific	transported	symbols when	
characteristics	within animals,	representing a	
	including	simple circuit in a	
	humans	diagram	

Working Scientifically

- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where data and results of increasing complexity using scientific diagrams and labels, classification keys, necessary
- Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
 - Recording tables, scatter graphs, bar and line graphs
 - Using test results to make predictions to set up further comparative and fair tests
- Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations
 - Identifying scientific evidence that has been used to support or refute ideas or arguments