

Curriculum Progression Map

Science

		Plant	ts		
Y1	Y2	Y3	Y4	Y5	Y6
 identify and name a variety of common wild and garden plants, including deciduous and evergreen trees identify and describe the basic structure of a variety of common flowering plants, including trees 	 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 	 identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant investigate the way in which water is transported within plants explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal 			

		Animals Inclu	iding Humans		
Y1	Y2	Y3	Y4	Y5	Y6
 identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals identify and name a variety of common animals that are carnivores, herbivores and omnivores describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense 	 notice that animals, including humans, have offspring which grow into adults find out about and describe the basic needs of animals, including humans, for survival (water, food and air) describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene 	 identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat identify that humans and some other animals have skeletons and muscles for support, protection and movement 	 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 chains, identifying producers, predators and prey 	describe the changes as humans develop to old age	 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 and lifestyle on the way their bodies function describe the ways in which nutrients and water are transported within animals, including humans

		Living Things ar	nd Their Habitat		
Y1	Y2	Y3	Y4	Y5	Y6
	 explore and compare the difference between things that are living, dead, and things that have never been alive identify that most living things live in habitats to which they are suited and describe how different habitats provide the basic needs of different kinds of animals and plants, and how they depend on each other identify and name a variety of plants and animals in their habitats. describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. 		 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 dangers to living things 	 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 how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals give reasons for classifying plants and animals based on specific characteristics

Light Control of the					
Y1	Y2	Y3	Y4	Y5	Y6
		 recognise that they need light in order to see things and that the dark is the absence of light notice that light is reflected from surfaces recognise that light from the sun can be dangerous and that there are ways to protect their eyes recognise that shadows are formed when the light from a light source is blocked by a solid object find patterns in the way that the size of shadows changes 			 recognise that light appears to travel in straight lines use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them

		Forces and	d Magnets		
Y1	Y2	Y3	Y4	Y5	Y6
Y1	Y2	compare how things move on different surfaces notice that some forces need contact between two objects, but magnetic forces can act at a distance observe how magnets attract or repel each other and attract some materials and not others compare and group together a variety of everyday materials on the basis on whether they are attracted		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	Y6
				some mechanisms, including levers, pulleys and gears,	
		 describe magnets as having two poles predict whether 		allow a smaller force to have a greater effect	
		two magnets will attract or repel each other.			

		Seasona	l Change		
Y1	Y2	Y3	Y4	Y5	Y6
 observe changes across the four seasons observe and 					
describe weather associated with the seasons and how day length varies					
		Mate			
Y1	Y2	Y3	Y4	Y5	Y6
 distinguish between an object and the material from which it is made identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock describe the simple physical properties of a variety of everyday materials 	 identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching 	 compare and group together different kinds of rocks on the basis of their appearance and simple physical properties describe in simple terms how fossils are formed when things that have lived are trapped within rock recognise that soils are made from rocks and organic matter 		 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 	

compare and group together a variety of everyday materials on the basis of their simple physical properties	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 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 soda

		Evolution an	d Inheritance		
Y1	Y2	Y3	Y4	Y5	Y6
					 recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to
					 identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution
		States of			
Y1	Y2	Y3	Y4	Y5	Y6
			compare and group materials together, according to whether they are solids, liquids or gases		

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				 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)		
				(6)		
				a idoutify the areas		
				identify the part		
				played by		
				evaporation and		
				condensation in		
				the water cycle		
				and associate the		
1						
				rate of evaporation		
				rate of evaporation with temperature		
			Earth an			
	Y1	Y2	Earth an	with temperature	Y5	Y6
	Y 1	Y2		with temperature		Y6
	Y1	Y2		with temperature	describe the	Y6
	Y1	Y2		with temperature	describe the movement of the	Y6
	Y1	Y2		with temperature	describe the movement of the Earth, and other	Y6
	Y1	Y2		with temperature	describe the movement of the Earth, and other planets, relative to	Y6
	Y1	Y2		with temperature	describe the movement of the Earth, and other	Y6
	Y1	Y2		with temperature	describe the movement of the Earth, and other planets, relative to the Sun	Y6
	Y1	Y2		with temperature	 describe the movement of the Earth, and other planets, relative to the Sun describe the 	Y6
	Y1	Y2		with temperature	 describe the movement of the Earth, and other planets, relative to the Sun describe the movement of the 	Y6
	Y1	Y2		with temperature	 describe the movement of the Earth, and other planets, relative to the Sun describe the movement of the Moon relative to 	Y6
	Y1	Y2		with temperature	 describe the movement of the Earth, and other planets, relative to the Sun describe the movement of the 	Y6
	Y1	Y2		with temperature	 describe the movement of the Earth, and other planets, relative to the Sun describe the movement of the Moon relative to the Earth 	Y6
	Y1	Y2		with temperature	 describe the movement of the Earth, and other planets, relative to the Sun describe the movement of the Moon relative to the Earth describe the Sun, 	Y6
	Y1	Y2		with temperature	 describe the movement of the Earth, and other planets, relative to the Sun describe the movement of the Moon relative to the Earth describe the Sun, Earth and Moon as 	Y6
	Y1	Y2		with temperature	 describe the movement of the Earth, and other planets, relative to the Sun describe the movement of the Moon relative to the Earth describe the Sun, Earth and Moon as approximately 	Y6
	Y1	Y2		with temperature	 describe the movement of the Earth, and other planets, relative to the Sun describe the movement of the Moon relative to the Earth describe the Sun, Earth and Moon as 	Y6

		Soi	und	use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky	
Y1	Y2	Y3	Y4	Y5	Y6
			 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 strength of the vibrations that produced it 		

			recognise that sounds get fainter as the distance from the sound source increases		
		Elect	tricity		
Y1	Y2	Y3	Y4	Y5	Y6
	12		 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 	13	 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 brightness of bulbs, the loudness of buzzers and the on/off position of switches use recognised symbols when representing a simple circuit in a diagram

	recognise some common conductors and insulators, and associate metals with being good conductors		
	Working Scientifically		
KS1	Lower KS2	Upper KS2	
	Asking Questions		
 ask simple questions and recognise that they can be answered in different ways 	 ask relevant questions and use different types of scientific enquiries to answer them set up simple practical enquiries, comparative and fair tests 	plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	
	Measuring and Recording		
 observe closely, using simple equipment perform simple tests gather and record data to help in answering questions 	 make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables gather, record, classify and present data in a variety of ways to help in answering questions Concluding 	 take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs 	
	identify differences, similarities or	identify scientific evidence that has been	
 identify and classify use their observations and ideas to suggest answers to questions 	 changes related to simple scientific ideas and processes report on findings from enquiries, including oral and written explanations, 	 used to support or refute ideas or arguments report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in 	

displays or presentations of results and conclusions use straightforward scientific evidence to answer questions or to support their findings	results, in oral and written forms such as displays and other presentations
Evaluating	
 use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions 	use test results to make predictions to set up further comparative and fair tests