Unit	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Animals, including humans	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 and their habitats		Explore and compare the differences 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 for 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, including microhabitats		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 micro-organisms, plants and animals Give reasons for classifying plants and animals based on specific characteristics

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		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			
Plants	Identify and name a variety	Observe and describe how	Identify and describe the		T
	of common and wild and garden plants, including deciduous and evergreen trees Identify and describe the basic structure of a variety	seeds and bulbs into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	functions of different parts of flowering plants: roots, stem/trunk, leaves and		
	of common flowering plants, including trees	grow and stay ficatory	(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		

Evolution and Inheritance					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 their parents Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution
Materials	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 Compare and group together a variety of everyday materials on the basis of their simple physical properties	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 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 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	

Science Pro	Science Progression Document – Based on Developing Experts progression of Knowledge document					
					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 of soda	
Seasonal changes	Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies					
Rocks			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			

		rogression of knowledge d			
States of			Compare and group		
matter			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		
			condensation in the water		
			cycle and associate the rate		
			of evaporation with		
			temperature		
Earth and				Describe the movement of	
space				the Earth and other planets	
				relative to the sun in the	
				solar system	
				Describe the movement of	
				the moon relative to the	
				Earth	
				Describe the sun, Earth and	
				moon as approximately	
				spherical bodies	
				Use the idea of the Earth's	
				rotation to explain day and	
				night and the apparent	
				movement of the sun	
				across the sky	

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Light		Recognise that they need			Recognise that light
		light in order to see things			appears to travel in straight
		and that dark is the			lines
		absence of light			Use the idea that light
		Notice that light is reflected			travels in straight lines to
		from surfaces			explain that objects are
		Recognise that light from			seen because they give out
		the sun can be dangerous			or reflect light into the eye
		and that there are ways to			Explain that we see things
		protect their eyes			because light travels from
		Recognise that shadows			light sources to our eyes or
		are formed when the light			from light sources to
		from a light source is			objects and then to our
		blocked by an opaque			eyes
		object			Use the idea that light
		Find patterns in the way			_
		that the size of shadows			travels in straight lines to
		change			explain why shadows have the same shape as the
					objects that cast them
Гочесе		Compare how things move		Evalain that unsurprested	objects that cast them
Forces				Explain that unsupported objects fall towards the	
		on different surfaces		Earth because of the force	
		Notice that some forces		of gravity acting between	
		need contact between 2		the Earth and the falling	
		objects, but magnetic		object	
		forces can act at a distance		Identify the effects of air	
		Observe how magnets		resistance, water	
		attract or repel each other		resistance and friction, that	
		and attract some materials		act between moving	
		and not others		surfaces	
		Compare and group		Recognise that some	
		together a variety of		mechanisms including	
		everyday materials on the		levers, pulleys and gears	
		basis of whether they are		allow a smaller force to	
		attracted to a magnet, and		have a greater effect.	
		identify some magnetic		nave a greater effect.	
		materials			
		Describe magnets as having			
		2 poles			
		Predict whether 2 magnets			
		will attract or repel each			
			l .	1	

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	other, depending on which poles are facing		
Electricity	t C C C C C C C C C C C C C C C C C C C	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 conductor	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

Sound	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