	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants	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	N/A	N/A	N/A
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	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,	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	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

	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.	eating the right amounts of different types of food, and hygiene.	muscles for support, protection and movement.			in which nutrients and water are transported within animals, including humans.
Everyday	Distinguish between an object and the	Identify and compare the suitability of a	N/A	N/A	N/A	N/A
Materials	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.	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.				
Seasonal	Observe changes across the four	N/A	N/A	N/A	N/A	N/A
Changes	seasons and describe weather associated					

	with the seasons and					
Living Things & Their Habitats	how day length varies. N/A	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 micro-habitats • Describe how animals obtain their food from plants and other animals, using the idea of a simple	N/A	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.
		food chain, and identify and name different sources of food.				
Rocks	N/A	N/A	Compare and group together different	N/A	N/A	N/A

			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		
Light	N/A	N/A	Recognise that they need light in order to see things and that 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 change.	N/A	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 &	N/A	N/A	Compare how things	N/A	Explain that	N/A
			move on different surfaces		unsupported objects fall towards the Earth	
Magnets			Notice that some		because of the force	
			forces need contact		of gravity acting	
			between two objects,		between the Earth	
			but magnetic forces		and the falling object	
			can act at a distance		 Identify the effects 	
			Observe how		of air resistance,	
			magnets attract or		water resistance and	
			repel each other and		friction, that act	
FORCES Y5			attract some		between moving	
FUNCLS IS			materials and not		surfaces	
			others		 Recognise that 	
			Compare and group		some mechanisms,	
			together a variety of		including levers,	
			everyday materials on		pulleys and gears,	
			the basis of whether		allow a smaller force	
			they are attracted to		to have a greater	
			a magnet, and		effect.	
			identify some			
			magnetic materials			
			 Describe magnets 			
			as having two poles			
			 Predict whether 			
			two magnets will			
			attract or repel each			
			other, depending on			
			which poles are			
	N1/A		facing.			
States of	N/A	N/A	N/A	Compare and group	N/A	N/A
				materials together,		
Matter				according to whether		
				they are solids, liquids		1

Sound	N/A	N/A	N/A	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. Identify how sounds are made, associating	N/A	N/A
				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.		
	N/A	N/A	N/A		/ ^	Associate the
Electricity	N/A	N/A	N/A		A	
1				appliances that run		brightness of a lamp
				on electricity		or the volume of a
				Construct a simple		buzzer with the
				series electrical		number and voltage
				circuit, identifying		of cells used in the
				and naming its basic		circuit
				parts, including cells,		 Compare and give
				wires, bulbs, switches		reasons for variations
				and buzzers		in how components
				 Identify whether or 		function, including
				not a lamp will light in		the brightness of
				a simple series circuit,		bulbs, the loudness of
				based on whether or		buzzers and the
				not the lamp is part		on/off position of
				of a complete loop		switches
				with a battery		 Use recognised
				 Recognise that a 		symbols when
				switch opens and		representing a simple
				closes a circuit and		circuit in a diagram.
				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.		
				conductors.		

Ducocrtica	N/A	N/A	N/A	N/A	Compare and group	N/A
Properties		,		,	together everyday	,
& Changes					materials on the basis	
					of their properties,	
of Materials					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	
					 Demonstrate that 	
					dissolving, mixing and	

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					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.
Earth & Space	N/A	N/A	N/A	N/A	Describe the movement of the Earth, and other planets, relative to the Sun in the solar systemN/A• 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.N/A
Forces	N/A	N/A	N/A	N/A	Explain that N/A 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.	
Evolution & Inheritance	N/A	N/A	N/A	N/A	N/A	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.

Working	KEY STAGE 1	LOWER KEY STAGE 2	UPPER KEY STAGE 2
scientifically	Working Scientifically During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: • Asking simple questions and recognising that they can be answered in different ways • Observing closely, using simple equipment • Performing simple tests • Identifying and classifying • Using their observations and ideas to suggest answers to questions • Gathering and recording data to help in answering questions.	 Working Scientifically (Lower Key Stage 2) Asking relevant questions and using different types of scientific enquiries to answer them Setting up simple practical enquiries, comparative and fair tests Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Identifying differences, similarities or changes related to simple scientific ideas and processes Using straightforward scientific evidence to answer questions or to support their findings. 	 Working Scientifically (Upper Key Stage 2) Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, 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 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.