

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Biology:	Identify that animals	Identify and name a	Notice that animals,	Identify that animals,	Describe the simple	Describe the	Identify and name
Animals	are living things	variety of common	including humans,	including humans,	functions of the basic	changes as	the main parts of
including	Know the difference	animals including fish,	have offspring which	need the right types	parts of the digestive	humans develop	the human
humans	between a living and	amphibians, reptiles,	grow into adults	and amount of	system in humans	to old age	circulatory system,
	non-living thing	birds and mammals		nutrition, and that	Identify the different		and describe the
	Use different media to		Find out about and	they cannot make	types of teeth in	Plan different	functions of the
	create a model	Identify and name a	describe the basic	their own food; they	humans and their	types of scientific	heart, blood
	Explain how some	variety of common	needs of animals,	get nutrition from	simple functions	enquiries to	vessels and blood
	products can be	animals that are	including humans, for	what they eat	Construct and	answer questions,	Recognise the
	produced by an	carnivores, herbivores	survival (water, food	Identify that humans	interpret a variety of	including	impact of diet,
	animal Understand	and omnivores	and air)	and some other	food chains,	recognising and	exercise, drugs
	the role farm animals	Describe and compare		animals have	identifying producers,	controlling	and lifestyle on
	have as a producer	the structure of a	Describe the	skeletons and	predators and prey	variables where	the way their
	Know which animals	variety of common	importance for humans	muscles for support,		necessary	bodies function
	live on a farm	animals (fish,	of exercise, eating the	protection and	Ask relevant	Use test results to	Describe the ways
	Understand the	amphibians, reptiles,	right amounts of	movement	questions and using	make predictions	in which nutrients
	importance of staying	birds and mammals	different types of food,		different types of	to set up further	and water are
	healthy	including pets)	and hygiene	Gather, record,	scientific enquiries to	comparative and	transported within
	Describe a balanced	Identify, name, draw		classify and present	answer them	fair tests	animals, including
	diet Know the	and label the basic	Asking simple questions	data in a variety of	Gather, record,		humans
	difference between	parts of the human	and recognise that	ways to help in	classify and present		
	healthy and	body and say which	they can be answered	answering questions	data in a variety of		Use test results to
	unhealthy food	part of the body is	in different ways	Record findings using	ways to help in		make predictions
	Explain where eggs	associated with each	Perform simple tests	simple scientific	answering questions		to set up further
	come from	sense	Identify and classify	language, drawings,	Identify differences,		comparative and
	Understand stages of		Using observations and	labelled diagrams,	similarities or changes		fair tests
	a chicken's life	Asking simple questions	ideas to suggest	keys, bar charts, and	related to simple		
	Name the parts of a	and recognise that	answers to questions	tables	scientific ideas and		
	chicken	they can be answered	Gather and record	Report on findings	processes Use		
	Understand how milk	in different ways	data to help in	from enquiries,	straightforward		
	can be used to keep		answering questions	including oral and	scientific evidence to		
	us healthy	Observe closely, using		written explanations,	answer questions or		
	Explain what a cow	simple equipment		displays or	to support their		
	produces			presentations of	findings		
	Explain where milk	Identify and classify		results and			
	comes from	Using observations and		conclusions			
	Understand which	ideas to suggest		Identify differences,			
	creatures are insects	answers to questions		similarities or changes			
	and invertebrates	Gather and record		related to simple			
	Describe the	data to help in		scientific ideas and			
	differences between	answering questions		processes			
	spiders, flies and			Use straightforward			
	centipedes			scientific evidence to			



	Name and draw the parts of an insect		answer questions or to support their			
	Explain how I use my arms, legs, and chest Give examples to		findings			
	explain how I use my arms, legs, and chest					
	Label parts of my body on a diagram					
	Describe and explain how we use our eyes					
	and nose to see and smell Know which senses					
	our eyes and nose are used for					
	Know what the eyes					
	where they are Explain how ears work					
	Explain the functions of your mouth					
	Understand the functions of your hair					
	Understand how humans grow					
	Describe changes in our own bodies List some ways we have					
	changed from a baby					
Biology: Living	Explain what some animals' habitats are	Explore and compare the differences		Recognise that living things can be	Describe the differences in the	Describe how living things are
things and their	like and what they need to survive in their	between things that are living, dead, and		grouped in a variety of ways	life cycles of a mammal, an	classified into broad groups
habitats	habitat Describe an animal's habitat	things that have never been alive Identify that most living		Explore and use classification keys to help group, identify	amphibian, an insect and a bird Describe the life	according to common observable
	Know where some domestic and wild	things live in habitats to which they are suited		and name a variety of living things in their	process of reproduction in	characteristics and based on
	animals live Explain why birds	and describe how different habitats		local and wider environment	some plants and animals	similarities and differences,
	need to live in a nest Know the types of	provide for the basic needs of different kinds		Recognise that environments can	Take	including micro- organisms, plants
	food birds feed on	of animals and plants,		change and that this	measurements,	and animals



Identify birds based on their features Identify what insects and invertebrates need to survive Observe insects and invertebrates closely in their habitats Describe where insects and invertebrates live Describe what a habitat is	 and how they depend on each other Identify and name a variety of plants and animals in their habitats, including microhabitats 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 Asking simple questions and recognise that they can be answered in different ways Observe closely, using simple equipment Identify and classify Using observations and ideas to suggest answers to questions Gather and record data to help in answering questions 	can sometimes pose dangers to living things Ask relevant questions and using different types of scientific enquiries to answer them Set up simple practical enquiries, comparative and for tests Make systematic ar careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, includin thermometers and data loggers Record findings usin simple scientific language, drawings labelled diagrams, keys, bar charts, and tables Use results to draw	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 Use test results to make predictions to set up further comparative and fair tests	Give reasons for classifying plants and animals based on specific characteristics Use test results to make predictions to set up further comparative and fair tests
	answers to questions Gather and record data to help in	Record findings usin simple scientific language, drawings labelled diagrams, keys, bar charts, and tables	S	



Biology: Plants	Understand which vegetables grow overground or underground Name several types of vegetables Identify three different types of vegetables Identify if a fruit tastes bitter or sweet Use clues to identify a fruit Identify and describe a range of fruit Explain why a plant is a living thing and what it needs to live Describe the features of a living thing Know the difference between a living and a non-living thing Explain the life cycle of a plant Label the key features of a plants come from	Identify and name a variety of common and wild and garden plants, including deciduous and evergreen trees Identify and describe the basic structure of a variety of common flowering plants, including trees Asking simple questions and recognise that they can be answered in different ways Observe closely, using simple equipment Identify and classify Using observations and ideas to suggest answers to questions Gather and record data to help in answering questions	Observe and describe how seeds and bulbs into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Asking simple questions and recognise that they can be answered in different ways Observe closely, using simple equipment Perform simple tests Identify and classify Using observations and ideas to suggest answers to questions Gather and record data to help in answering questions	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		
Biology: 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
		Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary 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 Use test results to make predictions



						to set up further comparative and fair tests
Chemistry: Materials	Explain what a home needs to work Understand which materials are needed to build a home Explain the difference between different types of homes Explain what happens to chocolate when it starts to melt Explain what happens to chocolate when it starts to become hard Use a mould to make an ice cube Explain how ice is formed Describe the best conditions for melting ice Explain which material is the most absorbent Explain which material is good for different clothing Complete a simple test	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 Perform simple tests Identify and classify Using observations and ideas to suggest answers to questions Gather and record data to help in answering questions	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 Perform simple tests Using observations and ideas to suggest answers to questions Gather and record data to help in answering questions		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,	



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				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 of	
				soda	
				3000	
				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 scientific evidence that has been used to support or refute ideas or arguments	
Chemistry: Seasonal changes	Understand seasonal changes Explain what happens during each season Describe what happens to a tree during the four seasons	Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies Perform simple tests Identify and classify Using observations and ideas to suggest answers to questions Gather and record data to help in answering questions			
Chemistry: Rocks	Understand some important processes and changes in the natural world around them		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 Make systematic and careful observations and, where appropriate, taking accurate		

			measurements using standard units, using a range of equipment, including thermometers and data loggers Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Identify differences, similarities or changes related to simple scientific ideas and processes		
Chemistry: States of matter	Follow verbal instructions to make a mixture Describe the changes the batter mix goes through as it starts to cook Explain how to measure Understand the process in making dough			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 condensation in the	



			water cycle and		
			associate the rate of		
			evaporation with		
			temperature		
			lemperatore		
			Ask relevant		
			questions and using		
			different types of		
			scientific enquiries to		
			answer them		
			Set up simple		
			practical enquiries,		
			comparative and fair		
			tests		
			Report on findings		
			from enquiries,		
			including oral and		
			written explanations,		
			displays or		
			presentations of		
			results and		
			conclusions		
			Identify differences,		
			similarities or changes		
			related to simple		
			scientific ideas and		
			processes		
				Deseribe the	
Physics: Earth and	Understand how far			Describe the movement of the	
	planets are from the Sun			Earth and other	
space	Describe what			planets relative to	
	different planets are			the sun in the solar	
	like			system	
	Know there are other			Describe the	
	planters in our solar			movement of the	
	system			moon relative to	
	3,310111			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 Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	
Physics: Light	Understand seasonal changes Explain what happens during each season		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		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



			light source is blocked by an opaque object Find patterns in the way that the size of shadows change Gather, record, classify and present data in a variety of ways to help in answering questions Record findings using		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
			simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Identify differences, similarities or changes related to simple scientific ideas and processes		Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Use test results to make predictions to set up further comparative and fair tests
Physics: Forces	Describe what happens when pushes and pulls oppose each other Suggest examples of pushes and pulls Identify if an action is a push or a pull Group objects based on whether they sink or float Explain what sink means		Compare how things move on different surfaces Notice that some forces need contact between 2 objects, but magnetic forces can act at a distance Observe how magnets attract or repel each other and attract some	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	



Explain what float		materials and not	friction, that act	
means		others	between moving	
		Compare and group	surfaces	
		together a variety of	Recognise that	
		everyday materials	some mechanisms	
		on the basis of	including levers,	
		whether they are	pulleys and gears	
		attracted to a	allow a smaller	
		magnet, and identify	force to have a	
		some magnetic	greater effect	
		materials		
		Describe magnets as	Record data and	
		having 2 poles	results of	
		Predict whether 2	increasing	
		magnets will attract	complexity using	
		or repel each other,	scientific	
		depending on which	diagrams and	
		poles are facing	labels,	
			classification keys,	
		Set up simple	tables, scatter	
		practical enquiries,	graphs, bar and	
		comparative and fair	line graphs	
		tests	Use test results to	
		Make systematic	make predictions	
		and careful	to set up further	
		observations and,	comparative and	
		where appropriate,	fair tests	
		taking 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		
		Report on findings		
		from enquiries,		
		including oral and		
		written explanations,		



			displays or presentations of results and conclusions		
Physics: Electricity	Identify where electrical appliances can be used Identify what I need to do to stay safe when using electrical appliances Explain why water and electricity do not mix			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 Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Use results to draw simple conclusions,	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 Identify scientific evidence that has been used to support or refute ideas or arguments



		make predictions for new values, suggest improvements and raise further questions Identify differences, similarities or changes related to simple scientific ideas and processes	
Physics: Sound Explain that different Make a simple musical instrumen Explain how to change a sound being made Understand sound vibrations	t	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 Ask relevant questions and using different types of scientific enquiries to answer them Gather, record, classify and present data in a variety of	



		ways to help in answering questions Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Use straightforward scientific evidence to answer questions or to support their findings	
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