SCIENCE

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals	identify and name a	notice that animals,	identify that animals,	recognise that living	describe the	identify and name the
including	variety of common	including humans,	including humans,	things can be	differences in the life	main parts of the human
humans	animals including	have offspring which	need the right types	grouped in a variety	cycles of a mammal,	circulatory system, and
	fish, amphibians,	grow into adults	and amount of	of ways	an amphibian, an	describe the functions of
	reptiles, birds and	find out about and	nutrition, and that		insect and a bird	the heart, blood vessels
	mammals		they cannot make	Construct and		and blood
	identify and name a	describe the basic	their own food; they	interpret a variety	Describe the life	
	variety of common	needs of animals,	get nutrition from	of food chains,	process of	recognise the impact of
	animals that are	including humans, for	what they eat	identifying	reproduction in some	diet, exercise, drugs and
	carnivores,	survival (water, food		producers,	plants and animals	lifestyle on the way their
	herbivores and	and air)	identify that humans	predators and prey		bodies function
	omnivores		and some other		Describe the changes	
	describe and	describe the	animals have skeletons	describe the simple	as humans develop to	describe the ways in
	compare the	importance for	and muscles for	functions of the	old age	which nutrients and
	structure of a	humans of exercise,	support, protection	basic parts of the		water are transported
	variety of common	eating the right	and movement.	digestive system in		within animals, including
	animals (fish,	amounts of different		humans		humans.
	amphibians,	types of food, and				
	reptiles, birds and	hygiene.		identify the		
	mammals,			different types of		
	including pets)			teeth in humans		
	identify, name,			and their simple		
	draw and label the			functions		
	basic parts of the					
	human body and					
	say which part of					
	the body is					
	associated with					
	each sense				1 11 11 116	
Living things and	Identify and name	explore and compare	identify and describe	explore and use	describe the life	describe how living things
their habitats	a variety of	the differences	the functions of	classification keys	process of	are classified into broad
	common wild and	between things that	different parts of	to help group,	reproduction in some	groups according to
	garden plants,	are living, dead, and	flowering plants:	identify and name a	plants and animals.	common observable

including deciduous	things that have never	roots, stem/trunk,	variety of living	characteristics and based
and evergreen	been alive	leaves and flowers	things in their local	on similarities and
trees			and wider	differences, including
	identify that most	explore the	environment	micro-organisms, plants
identify and	living things live in	requirements of plants		and animals
describe the basic	habitats to which they	for life and growth	recognise that	
structure of a	are suited and	(air. light. water,	environments can	give reasons for
variety of common	describe how	nutrients from soil,	change and that	classifying plants and
flowering plants,	different habitats	and room to grow) and	this can sometimes	animals based on specific
including trees	provide for the basic	how they vary from	pose dangers to	characteristics.
	needs of different	plant to plant	living things.	
	kinds of animals and			
	plants, and how they	investigate the way in		
	depend on each other	which water is		
		transported within		
	identify and name a	plants		
	variety of plants and			
	animals in their	explore the part that		
	habitats, including	flowers play in the life		
	micro-habitats	cycle of flowering		
		plants, including		
	describe how animals	pollination, seed		
	obtain their food from	formation and seed		
	plants and other	dispersal		
	animals, using the			
	idea of a simple food			
	chain, and identify			
	and name different			
	sources of food.			
	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				
Evolution and Inheritance	ago recognise that living t identify how animals	things produce offspring of and plants are adapted to	of the same kind, but norr o suit their environment in	nally offspring vary and a different ways and the	living things that inhabited are not identical to their at adaptation may lead to	
Everyday 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 a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic material	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	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,	

			T					
				of evaporation with	sieving and			
				temperature	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			
					To vote the state of the state			
					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	Year 1 only			L	01 30dd			
changes	observe changes across the four seasons							
changes	observe and describe weather associated with the seasons and how day length varies							
Rocks	Year 3 only							
Nocho	•	ngether different kinds of	frocks on the basis of the	r annearance and simn	le nhysical properties			
			d when things that have I					
	-	e made from rocks and c	_	ved are trapped within	TOCK			
Light		e made nom rocks and c	ngame matter					
Ligiit	Teal 3 Ulliy	Year 3 only						

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 Year 6 only recognise that light appears to travel in straight lines use the idea that light papears to travel 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 Year 3 only 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 describe magnets as having two poles predict whether two magnets will attract or repel each other, depending on which poles are facing Year 5 only 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 Sound Year 4 only identify how sounds are made, associating some of them with something vibrating recognise that some mechanisms and the strength of the vibrations that produced it find patterns between the pitch of a sound and the strength of the vibrations that produced it recognise that some gest fainter as the distance from the source increases		
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Sound Year 4 only 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 sound gets fainter as the distance from the source increases		explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
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find patterns between the volume of a sound and the strength of the vibrations that produced it recognise that sound gets fainter as the distance from the source increases		recognise that vibrations from sounds travel through a medium to the ear
recognise that sound gets fainter as the distance from the source increases		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
Flectricity Year 4 only		recognise that sound gets fainter as the distance from the source increases
	Electricity	Year 4 only
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		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 Year 6 only 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
Earth and space	Year 5 only describe the movement of 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

	Working Scientifically									
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
Ideas and Questions	asks simple questions and recognises that they can be answered in different ways	asks simple questions and recognises that they can be answered in different ways	asks relevant questions and uses different types of scientific enquiries to answer them	asks relevant questions and uses different types of scientific enquiries to answer them	plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary				
Planning	perform simple tests	perform simple tests	sets up simple practical enquiries, comparative and fair tests	sets up simple practical enquiries, comparative and fair tests	selects and plans different types of scientific enquiries to answer questions make decisions about what observations to make, what measurements to use, how long to make them for and whether to repeat them	selects and plans different types of scientific enquiries to answer questions make decisions about what observations to make, what measurements to use, how long to make them for and whether to repeat them				

Obtaining and presenting evidence	observes closely (including changes over time), using simple equipment gathers and records simple data to help in answering questions	observes closely (including changes over time), using simple equipment gathers and records simple data to help in answering questions	makes systematic and careful observations, and where appropriate, taking accurate measurements using standard units, a range of equipment eg. data loggers and thermometers gathers, records, classifies and presents data in a variety of ways to help in answering questions records and presents findings using simple	makes systematic and careful observations, and where appropriate, taking accurate measurements using standard units, a range of equipment eg. data loggers and thermometers gathers, records, classifies and presents data in a variety of ways to help in answering questions records and presents findings using simple	choose the most appropriate equipment to make measurements explain how to use the equipment accurately recognise when and how to set up comparative and fair tests recognise and control 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	choose the most appropriate equipment to make measurements explain how to use the equipment accurately recognise when and how to set up comparative and fair tests recognise and control 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
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			diagrams, keys, bar charts and tables report on findings from enquiries, including oral and written explanations, displays or presentations of	diagrams, keys, bar charts and tables report on findings from enquiries, including oral and written explanations, displays or presentations of		
			results and conclusions	results and conclusions		
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Considering		identifies and	use results to draw	use results to draw	use test results to make	use test results to make
and	classifies	classifies	simple conclusions,	simple conclusions,	predictions to set up further	predictions to set up
evaluating			make predictions for	make predictions for	comparative and fair tests	further comparative and
evidence	uses their	uses their	new values, suggest	new values, suggest		fair tests
	observations and	observations	improvements and	improvements and	report and present findings	
	ideas to suggest	and ideas to	raise further questions	raise further questions	from enquiries, including	report and present findings
	answers to questions	suggest			conclusions, causal	from enquiries, including
		answers to	identify differences,	identify differences,	relationships and	conclusions, causal
		questions	similarities or changes	similarities or changes	explanations of (including	relationships and
			related to simple	related to simple	the degree of trust) results,	explanations of (including
			scientific ideas and	scientific ideas and	in oral and written forms	the degree of trust) results,
			processes	processes	such as displays and other	in oral and written forms
					presentations	such as displays and other
			use straightforward	use straightforward		presentations
			scientific evidence to	scientific evidence to	identify scientific evidence	
			answer questions or to	answer questions or to	that has been used to	identify scientific evidence
			support their findings	support their findings	support or refute ideas or	that has been used to
					arguments	support or refute ideas or
						arguments