










Science Curriculum Coverage and Progression

Animals, including Humans	KS1				LKS2		UKS2	
								
Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	✓							
Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.	✓	✓						
Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).	✓	✓						
Identify and name a variety of common animals that are carnivores, herbivores and omnivores.		✓						
Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.			✓					
Find out about and describe the basic needs of animals, including humans, for survival (water, food and air).			✓	✓				
Notice that animals, including humans, have offspring which grow into adults.			✓	✓				
Identify that humans and some other animals have skeletons and muscles for support, protection and movement.					✓			
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 the different types of teeth in humans and their simple functions.						✓		
Describe the simple functions of the basic parts of the digestive system in humans.						✓		
Construct and interpret a variety of food chains, identifying producers, predators and prey.						✓		
Describe the changes as humans develop to old age.							✓	
Describe the ways in which nutrients and water are transported within animals, including humans.								✓
Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.								✓
Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.								✓

Science Curriculum Coverage and Progression

Earth and Space	KS1	LKS2	UKS2
			
Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.			✓
Describe the Sun, Earth and Moon as approximately spherical bodies.			✓
Describe the movement of the Moon relative to the Earth.			✓
Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.			✓

Electricity	KS1	LKS2	UKS2
			
Recognise some common conductors and insulators, and associate metals with being good conductors.		✓	
Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit		✓	
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.		✓	
Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.		✓	
Identify common appliances that run on electricity.		✓	
Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.			✓
Use recognised symbols when representing a simple circuit in a diagram.			✓
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.			✓




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Science Curriculum Coverage and Progression

Everyday Materials and States of Matter	KS1	LKS2	UKS2
			
Compare and group together a variety of everyday materials on the basis of their simple physical properties.	✓		
Describe the simple physical properties of a variety of everyday materials.	✓		
Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.	✓		
Distinguish between an object and the material from which it is made.	✓		
Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.		✓	
Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.		✓	
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).			✓
Compare and group materials together, according to whether they are solids, liquids or gases.		✓	
Demonstrate that dissolving, mixing and changes of state are reversible changes.			✓
Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.			✓
Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.			✓
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.			✓
Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.			✓
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.			✓





Science Curriculum Coverage and Progression

Evolution and Inheritance	KS1	LKS2	UKS2
			
Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.			✓
Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.			✓
Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.			✓


Forces	KS1	LKS2	UKS2
			
Compare how things move on different surfaces.		✓	
Describe magnets as having two poles.		✓	
Predict whether two magnets will attract or repel each other, depending on which poles are facing.		✓	
Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.		✓	
Observe how magnets attract or repel each other and attract some materials and not others.		✓	
Notice that some forces need contact between two objects, but magnetic forces can act at a distance.		✓	
Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.			✓
Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.			✓
Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.			✓

Science Curriculum Coverage and Progression

Living Things and their Habitats

	KS1		LKS2	UKS2
				
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.	✓	✓	✓	
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.				✓
Describe the life process of reproduction in some plants and animals.				✓
Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.				✓

Seasonal Changes

	KS1	LKS2	UKS2
			
Observe and describe weather associated with the seasons and how day length varies.	✓		
Observe changes across the four seasons.	✓		



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Science Curriculum Coverage and Progression

Light	KS1	LKS2	UKS2
			
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.		✓	
Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.			✓
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 that objects are seen because they give out or reflect light into the eye.			✓
Recognise that light appears to travel in straight lines.			✓

Sound	KS1	LKS2	UKS2
			
Recognise that vibrations from sounds travel through a medium to the ear.		✓	
Recognise that sounds get fainter as the distance from the sound source increases.		✓	
Find patterns between the volume of a sound and the strength of the vibrations that produced it.		✓	
Find patterns between the pitch of a sound and features of the object that produced it.		✓	
Identify how sounds are made, associating some of them with something vibrating.		✓	





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Science Curriculum Coverage and Progression

Plants	KS1			LKS2	UKS2
					
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.		✓			
Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.			✓		
Observe and describe how seeds and bulbs grow into mature plants.			✓		
Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.				✓	
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.				✓	
Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.				✓	
Investigate the way in which water is transported within plants.				✓	

Rocks	KS1	LKS2	UKS2
			
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.		✓	

Science Curriculum Coverage and Progression

Working Scientifically	KS1										LKS2									
																				
Gather and record data to help in answering questions.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
Identify and classify.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
Use their observations and ideas to suggest answers to questions.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
Perform simple tests.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
Observe closely, using simple equipment.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
Ask simple questions and recognise that they can be answered in different ways.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
Gather, record, classify and present data in a variety of ways 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.											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Set up simple practical enquiries, comparative and fair tests.											✓	✓	✓	✓	✓	✓	✓			✓
Ask relevant questions and using different types of scientific enquiries to answer them.											✓	✓	✓	✓	✓	✓	✓	✓	✓	
Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓







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Science Curriculum Coverage and Progression

Working Scientifically	LKS2									UKS2								
																		
Identify differences, similarities or changes related to simple scientific ideas and processes.	✓	✓	✓	✓	✓	✓	✓	✓	✓									
Use straightforward scientific evidence to answer questions or to support their findings	✓	✓	✓	✓	✓	✓	✓	✓	✓									
Identify scientific evidence that has been 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 results, in oral and written forms such as displays and other presentations.										✓	✓	✓	✓	✓	✓	✓	✓	✓
Use test results to make predictions to set up further comparative and fair tests.										✓	✓	✓	✓	✓	✓	✓	✓	✓
Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.										✓	✓	✓	✓	✓	✓	✓	✓	✓
Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.										✓	✓	✓	✓	✓	✓	✓	✓	✓
Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.										✓	✓	✓	✓	✓	✓	✓	✓	✓