		Taught Across KS1	Taught Across LKS2	Taught Across UKS2
	Asking Questions	Ask simple questions and recognise that they can be answered in different ways	Ask relevant questions and use different types of scientific enquiries to answer them Set up simple practical enquiries,	Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
			comparative and fair tests	
	Measuring and recording	Observe closely, using simple equipment	Make systematic and careful observations and,	Take measurements, using a range of scientific
		Perform simple tests	where appropriate, take accurate measurements	equipment, with increasing accuracy and precision, taking repeat readings when
		Gather and record data to help in answering questions	using standard units, using a range of equipment,	appropriate
			including thermometers and data loggers	Record data and results of increasing complexity
ically			Record findings using simple scientific language,	using scientific diagrams and labels, classification
Working Scientifically			drawings, labelled diagrams, keys, bar charts, and tables	keys, tables, scatter graphs, bar and line graphs
			Gather, record, classify and present data in a variety of ways to help in answering questions	
>	Concluding	Identify and classify	Identify differences, similarities or changes related	Identify scientific evidence that has been used to
		Use their observations and ideas to suggest answers to questions	to simple scientific ideas and processes	support or refute ideas or arguments
			Report on findings from enquiries, including oral	Report and present findings from enquiries, including conclusions, causal relationships
			and written explanations, displays or presentations	and explanations of and degree of trust in results,
			of results and conclusions	in oral and written forms such as displays and
			Use straightforward scientific evidence to answer	other presentations
	Evaluating		questions or to support their findings Use results to draw simple conclusions, make	Use test results to make predictions to set up further comparative and fair tests

		predictions for new values, suggest improvements and raise further questions	
Plants	Identify and name a variety of common wild and garden plants, including deciduous and evergreen treesIdentify and describe the basic structure of a variety of common flowering plants, including treesObserve and describe how seeds and bulbs grow into mature plants Find out and describe how plants need 	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	
Animals including humans	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammalsIdentify and name a variety of common animals that are carnivores, herbivores and omnivoresDescribe 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 senseNotice 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)	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
	Describe the importance for humans of		

	exercise, eating the right amounts of different		
Living Things and their habitats	types of food, and hygieneExplore and compare the difference betweenthings that are living, dead, and things thathave never been alive	Recognise that living things can be grouped in a variety of ways	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
	Identify that most living things live in habitats to which they are suited and describe how different habitats provide 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 food chain, and identify and name	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 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
Second Change	different sources of food		
Seasonal Change	Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies		
Light		Recognise that they need light in order to see things and that the 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 changes	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 and Magnets	Compare how things move on different	Explain that unsupported objects fall towards
r or ces and magnets	surfaces	the Earth because of the force of gravity
	suraces	
		acting between the Earth and the falling
	Notice that some forces need contact	object
	between	
	two objects, but magnetic forces can act at a	Identify the effects of air resistance, water
	distance	resistance and friction, that act between
		moving surfaces
	Observe how magnets attract or repel each	- 3
	other and attract some materials and not	Recognise that some mechanisms, including
	others	levers, pulleys and gears, allow a smaller
	others	
		force to have a greater effect
	Compare and group together a variety of	
	everyday materials on the basis on whether	
	they	
	are attracted to a magnet, and 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	
	facing	

Materials &	Everyday materials	Rocks	Compare and group together everyday
Properties and			materials on the basis of their properties,
changes of materials	Distinguish between an object and the	Compare and group together different kinds	including their hardness, solubility,
changes of materials	material from which it is made	of rocks on the basis of their appearance and	transparency, conductivity (electrical and
		simple physical properties	thermal), and response to magnets
	Identify and name a variety of everyday		
	materials, including wood, plastic, glass,	Describe in simple terms how fossils are	Know that some materials will dissolve in
	metal, water, and rock	formed when things that have lived are	liquid to form a solution, and describe how to
		trapped within rock	recover a substance from a solution
	Describe the simple physical properties of a		
	variety of everyday materials	Recognise that soils are made from rocks	Use knowledge of solids, liquids and gases
		and	to decide how mixtures might be separated,
	Compare and group together a variety of	organic matter	including through filtering, sieving and
	everyday materials on the basis of simple		evaporating
	physical properties	States of matter	
			Give reasons, based on evidence from
	Identify and compare the suitability of a	Compare and group materials together,	comparative and fair tests, for the particular
	variety of everyday materials, including	according to whether they are solids, liquids	uses of everyday materials, including metals,
	wood,	or gases	wood and plastic
	metal, plastic, glass, brick, rock, paper and		
	cardboard for particular uses	Observe that some materials change state	Demonstrate that dissolving, mixing and
		when they are heated or cooled, and	changes of state are reversible changes
	Find out how the shapes of solid objects	measure or research the temperature at	
	made	which this happens in degrees Celsius (°C)	Explain that some changes result in the
	from some materials can be changed by	I dentify the next played by a second in and	formation of new materials, and that this kind
	squashing, bending, twisting and stretching	Identify the part played by evaporation and	of change is not usually reversible, including
		condensation in the water cycle and	changes associated with burning and the
		associate the rate of evaporation with temperature	action of acid on bicarbonate of soda
Evolution and			Recognise that living things have changed
inheritance			over time and that fossils provide information
innentance			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
Earth and Space			Describe the movement of the Earth, and
			other planets, relative to the Sun
			other planets, relative to the Sun

		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
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	
Electricity	Identify common appliances that run on electricityConstruct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzersIdentify 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 batteryRecognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuitRecognise some common conductors and insulators, and associate metals with being good conductors	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