	Working Scientifically (ongoing, see working scientifically overview	Autumn 1 Lost and Found	Autumn 2 Nibbles	Spring 1 Lion Inside	Spring 2 The Curious Case of The Missing Mammoth	Summer 1 Toys in One Space	Summer 2 Goldilocks and Just One Bear
Y1	 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. 	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 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.	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.	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 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.	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.	Seasons Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies.	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.

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	0	Working Scientifically (ongoing, see working scientifically overview	Autumn 1 Troll Swap	Autumn 2 The Owl who was Afraid of the Dark	Spring 1 The Dragon Machine	Spring 2 Major Glad, Major Dizzy	Summer 1 Last Wolf	Summer 2 Grandad's Secret Giant
Y2		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 and arecording data to help in any questions.	Animals, including humans Notice that animals including humans have offspring which grow into adults Find out about and describe basic needs of animals including humans for survival (water, food and air) Describe importance for humans of exercise, eating balanced diet and hygiene	Living things and their habitats Explore and compare the differences between things that are living, dead, and things that have never been alive 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	Materials Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses	Materials Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Plants 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	Living Things and their Habitats 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

	0	Working Scientifically (ongoing, see working scientifically overview	Autumn 1 Seal Surfer	Autumn 2 Winter's Child	Spring 1 Stone Age Boy	Spring 2 Big Blue Whale	Summer 1 Journey	Summer 2 Zebra Giraffe
Y3		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	Light 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	Plants 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.	Rocks and Soils 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	Animals, including humans 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.	Forces and magnets Compare how different things move on different surfaces. Notice that some forces need contact between two objects, but manta forces can act at distance. Observe how magnet attract or repel each other and attract some material and not others. Compare and group together a variety of everyday materials on the basis on whether they attracted to a magnet and identify some magnetic materials. Describe magnets as having to poles. Predict whether two magnets will attract or repel each other depending on which poles are facing.	Light Recognise that shadows are formed when the light from a light source is blocked by an opaque object Find patterns in the way that the size of shadows change.
	0	scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings.						

Y4	Working Scientifically (ongoing, see working scientifically overview	Autumn 1 Gorilla	Autumn 2 Leon and the Place Between	Spring 1 Escape Pompeii	Spring 2 When the Giant Stirred	Summer 1 Where the Forest Meets the Sea	Summer 2 Blue John
Y4	 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 	Animals including humans ldentify 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 simple functions of the basic parts of the digestive system in humans s.	Electricity 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 conductors.	States of matter 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.	Living things 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.	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 increase

Y5	0	Working Scientifically (ongoing,	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		see working scientifically overview	Queen of Falls	Lost Happy Ending	Arthur and the Golden Rope	Darkest Dark	Paper Bag Prince	Hunter
	0	Planning different types of	Forces	Properties and	Properties and	Earth and Space	Properties and	Life cycles
		scientific enquiries to answer	Explain that	Changes of	Changes of	Describe the	Changes of materials	Describe the
		questions, including recognising	unsupported	materials	materials	movement of	demonstrate that	differences in the
		and controlling variables where	objects fall	Compare and	Know that some	the Earth, and	dissolving, mixing and	life cycles of a
		necessary	towards the	group together	materials will	other planets,	changes of state are	mammal, an
	0	Taking measurements, using a	Earth because of	everyday	dissolve in liquid	relative to the	reversible changes	amphibian, an
		range of scientific equipment,	the force of	materials on the	to form a	Sun in the solar	 Explain that 	insect and a bird
		with increasing accuracy and	gravity acting	basis of their	solution, and	system	some	Describe the life
		precision, taking repeat readings	between the	properties,	describe how to	Describe the	changes	process of
		when appropriate	Earth and the	including their	recover a	movement of	result in the	reproduction in
	0	Recording data and results of	falling object	hardness,	substance from	the Moon	formation of	some plants and
		increasing complexity using	Identify the	solubility,	a solution	relative to the	new	animals.
		scientific diagrams and labels,	effects of air	transparency,	Use knowledge	Earth	materials,	To find out about
		classification keys, tables, scatter	resistance, water	conductivity	of solids, liquids	Describe the	and that this	the work of
		graphs, bar and line graphs Using test results to make	resistance and friction, that act	(electrical and thermal), and	and gases to decide how	Sun, Earth and Moon as	kind of change is	naturalists and animal
	0	predictions to set up further	between	response to	mixtures might	approximately	not usually	behaviourists
		comparative and fair tests	moving surfaces	magnets	be separated,	spherical bodies	reversible,	such as Jane
	0	Reporting and presenting findings	Recognise that	Give reasons,	including	Use the idea of	including	Goodall and
	0	from enquiries, including	some	based on	through filtering,	the Earth's	changes	David
		conclusions, causal relationships	mechanisms,	evidence from	sieving and	rotation to	associated	Attenborough.
		and explanations of and degree	including levers,	comparative	evaporating	explain day and	with burning	Andriboloogn.
		of trust in results, in oral and	pulleys and	and fair tests, for	Ovaporaning	night and the	and the	
		written forms such as displays and	gears, allow a	the particular		apparent	action of	
		other presentations	smaller force to	uses of everyday		movement of	acid on	
	0	Identifying scientific evidence	have a greater	materials,		the sun across	bicarbonate	
		that has been used to support or	effect.	including metals,		the sky.	of soda.	
		refute ideas or arguments.	0.10011	wood and			0.0000	
				plastic.				
Y6	Working	Scientifically (ongoing, see	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		scientifically overview	Queen of Falls	Lost Happy	Arthur and the	Darkest Dark	Paper Bag Prince	Hunter
		<u>-</u>		Ending	Golden Rope			
Y6	0	Planning different types of	Electricity	Living things and	Animals,	Evolution and	Light	Working
		scientific enquiries to answer	Associate the	their habitats	including	inheritance	Pupils should be	Scientifically
		questions, including recognising	brightness of a	Describe how	humans	Recognise that	taught to: 🗆	
		and controlling variables where	lamp or the	living things are	Identify and	living things have	recognise that light	
		necessary	volume of a	classified into	name the main	changed over	appears to travel in	
	0	Taking measurements, using a	buzzer with the	broad groups	parts of the	time and that	straight lines □ use	
		range of scientific equipment,	number and	according to	human	fossils provide	the idea that light	
		with increasing accuracy and	voltage of cells	common	circulatory	information	travels in straight lines	
				observable	system, and	about living	to explain that	

o I	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 g scientific evidence that has d to support or refute ideas or ts.	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.	and based on similarities and differences, including microorganisms, plants and animals Give reasons for classifying plants and animals based on specific characteristics.	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.	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.	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.	
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