

## Whole-school Curriculum subject plan

Science

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 1	Seasonal changes	Human body and senses	Everyday m	naterials	Classify animals in different ways, e.g. mammal, carnivore.	Plants
Component Knowledge	<ul> <li>Observe and de</li> <li>Identify and na</li> <li>Identify and de</li> <li>Identify and na</li> <li>Identify and na</li> <li>Identify and na</li> <li>Describe and construction</li> <li>Describe and construction</li> <li>Distinguish bet</li> <li>Identify, name,</li> <li>Distinguish bet</li> <li>Identify and na</li> <li>Describe the si</li> <li>Compare and ge</li> <li>Working Scientification</li> <li>The children and helping them t</li> <li>Children explore change. They us observations.</li> <li>They begin to to the si</li> </ul>	escribe the basic structure ime a variety of common ompare the structure of a , draw and label the basic ween an object and the r ime a variety of everyday mple physical properties group together a variety of <b>ally:</b> The involved in planning ho o recognise that there are re the world around them is appropriate senses, ai	ed with the seasons an wild and garden plant e of a variety of commo- animals including fish, animals that are carni- a variety of common a c parts of the human be naterial from which it materials, including w of a variety of everyda of everyday materials of e different ways in which n. They make careful of ded by equipment suc- ally by comparisons, the vided to gather evider	s, including decidu on flowering plant , amphibians, repti vores, herbivores a nimals (fish, amph ody and say which is made. yood, plastic, glass, ay materials. on the basis of the ovided to answer t ich questions can b bservations to sup th as magnifying gl en using non-stan nce to answer ques	ious and evergreen trees. s, including trees. iles, birds and mammals. and omnivores. ibians, reptiles, birds and m part of the body is associat , metal, water, and rock. ir simple physical propertie the questions using difference answered. oport identification, compar asses or digital microscopes	ted with each sense. s. ht types of enquiry, rison and noticing s, to make their elves or the teacher.

	<ul> <li>Children use their observations and testing to compare objects, materials and living things. They sort and group these things, identifying their own criteria for sorting.</li> <li>They use simple secondary sources (such as identification sheets) to name living things. They describe the characteristics they used to identify a living thing.</li> </ul>					
YEAR 2	Healthy living and life cycles	Animals, Including Humans	Everyday materials	Plants	Living things and their habitats	
Component Knowledge	<ul> <li>Identify that me</li> <li>needs of differe</li> <li>Identify and national</li> <li>Describe how a different source</li> <li>Observe and de</li> <li>Find out and de</li> <li>Find out about</li> <li>Describe that anine</li> <li>Find out about</li> <li>Describe the im</li> <li>Identify and concardboard for p</li> <li>Find out how the</li> <li>Working Scientificat</li> <li>The children are helping them to observations.</li> <li>They begin to ta</li> <li>The children us the concard out:</li> <li>Children use the identifying their</li> </ul>	ost living things live in hak ent kinds of animals and p me a variety of plants and nimals obtain their food f es of food escribe how seeds and bull escribe how plants need w mals, including humans, h and describe the basic ne portance for humans of e mpare the suitability of a matricular uses. The shapes of solid objects <b>lly:</b> the involved in planning how the recognise that there are the world around them as appropriate senses, aic ake measurements, initial e practical resources provion tests to classify; compara eir observations and testi r own criteria for sorting.	bitats to which they ar lants, and how they d lanimals in their habi rom plants and other bs grow into mature p vater, light and a suita ave offspring which g eds of animals, includ exercise, eating the rig variety of everyday m made from some mat w to use resources pro- different ways in whi They make careful of led by equipment suc- ly by comparisons, th ided to gather eviden tive tests; pattern see ng to compare objects	re suited and desc lepend on each of tats, including mid animals, using th plants. ble temperature row into adults. ing humans, for s ght amounts of dir aterials, including terials can be chan by ided to answer ch questions can bservations to sup h as magnifying g en using non-star ice to answer que eking enquiries; an s, materials and li	cro-habitats he idea of a simple food chain, and identify and name to grow and stay healthy. Survival (water, food and air). fferent types of food, and hygiene. g wood, metal, plastic, glass, brick, rock, paper and nged by squashing, bending, twisting and stretching the questions using different types of enquiry, be answered. pport identification, comparison and noticing glasses or digital microscopes, to make their	

YEAR 3	Rocks and Soils	Forces and	Light	Plants	Skeletal structure,			
		magnets	i de la companya de l		nutrition (Animals			
					including humans)			
Component	<ul> <li>Compare and gro</li> </ul>	bup together different ki	nds of rocks on the basis of their appear	rance and simple physical r				
Knowledge	<ul> <li>Describe in simple terms how fossils are formed when things that have lived are trapped within rock.</li> </ul>							
interned be	<ul> <li>Recognise that soils are made from rocks and organic matter.</li> </ul>							
	Identify and desc	ribe the functions of dif	ferent parts of flowering plants: roots; s	tem/trunk; leaves; and flov	wers.			
			e and growth (air, light, water, nutrients					
	from plant to plant.							
	Investigate the w	vay in which water is trai	nsported within plants.					
	Explore the part	that flowers play in the l	ife cycle of flowering plants, including p	ollination, seed formation	and seed dispersal.			
	Identify that anir	nals, including humans,	need the right types and amount of nut	rition, and that they canno	ot make their own food –			
	they get nutrition from v	what they eat.						
	<ul> <li>Identify that hun</li> </ul>	nans and some other ani	mals have skeletons and muscles for su	pport, protection and mov	ement.			
	-		o see things, and that dark is the absenc	e of light.				
	•	is reflected from surface						
	-	-	dangerous and that there are ways to p					
	-		n the light from a light source is blocked	by an opaque object.				
	<ul> <li>Find patterns in the way that the size of shadows change.</li> <li>Compare how things move on different surfaces.</li> <li>Notice that some forces need contact between two objects, but magnetic forces can act at a distance.</li> <li>Observe how magnets attract or repel each other and attract some materials and not others.</li> </ul>							
			everyday materials on the basis of whe	ther they are attracted to	a magnet, and identify			
	some magnetic material							
	-	s as having two poles.		ah walao ayo faaina				
		-	or repel each other, depending on whic	in poles are facing.				
	Working Scientifical	•	les					
		•	lge when asking questions. They indepe	ndently use a range of que	estion stems. where			
		y answer these question wer questions posed by						
		• • •	decide for themselves how to gather evi	donce to answer the quest	tion Thoy recognise			
	-		answer questions that cannot be answe	•				
	-	ney have chosen to answ	-		a mey laciting the type			
		ke systematic and carefu	-					
		-	uring length, time, temperature and cap	acity. They use standard u	nits for their			
	measurements.	· · · · ·		/ -/ ··································				

	teacher.	lect from a range of prac	-		er questions generated by and simple fair tests; obs	
	and pattern see	•				
			•	•	heir observation e.g. usin	
		pictures, labelled diagrams or writing. They record their measurements e.g. using tables, tally charts and bar charts (given templates, if required, to which they can add headings). They record classifications e.g. using tables, Venn diagrams, Carroll diagrams.				
	<ul> <li>Children are supported to present the same data in different ways in order to help with answering the question.</li> <li>Children answer their own and others' questions based on observations they have made, measurements they have taken or</li> </ul>					
		ey have gained from seco				
	•	-	• •	tatements based on	their evidence. They begin	in to identify naturally
	• •	rns and causal relationsh clusions based on their e	•	hiect knowledge		
					they would do it differen	tly if they repeated the
	enquiry.	, , ,				, , ,
			values for different iten	ns tested using the sa	ame method e.g. the dista	ance travelled by a car
	on an additiona		ildron ack further ques	tions which can be a	newarad by avtanding th	o como onquiru
	-	•	•		nswered by extending the opropriate scientific vocal	• •
		0000				
<b>ΥΕΔΡ 4</b>	Digestive system	Food chains	All living	States of	Sound	Electricity
YEAR 4	Digestive system & teeth	Food chains	All living things	States of matter	Sound	Electricity
YEAR 4 Component	<ul><li>&amp; teeth</li><li>Recognise that</li></ul>	living things can be grou	things ped in a variety of way	matter s.		
	<ul> <li>&amp; teeth</li> <li>Recognise that</li> <li>Explore and use</li> </ul>	living things can be grou e classification keys to he	things ped in a variety of way elp group, identify and	matter s. name a variety of livi	ng things in their local an	
Component	<ul> <li>&amp; teeth</li> <li>Recognise that</li> <li>Explore and use</li> <li>Recognise that</li> </ul>	living things can be grou e classification keys to he environments can chang	things ped in a variety of way elp group, identify and ge and that this can son	matter s. name a variety of livin netimes pose danger	ng things in their local an s to living things	
Component	<ul> <li>&amp; teeth</li> <li>Recognise that</li> <li>Explore and use</li> <li>Recognise that</li> <li>Describe the si</li> </ul>	living things can be grou classification keys to he environments can chang mple functions of the ba	things ped in a variety of way elp group, identify and ge and that this can son ssic parts of the digestiv	matter s. name a variety of livin netimes pose danger ve system in humans.	ng things in their local an s to living things	
Component	<ul> <li>&amp; teeth</li> <li>Recognise that</li> <li>Explore and use</li> <li>Recognise that</li> <li>Describe the si</li> <li>Identify the diff</li> </ul>	living things can be grou e classification keys to he environments can chang	things ped in a variety of way elp group, identify and ge and that this can son usic parts of the digestive numans and their simple	matter s. name a variety of livin netimes pose dangers ve system in humans. e functions.	ng things in their local an 's to living things	
Component	& teeth <ul> <li>Recognise that</li> <li>Explore and use</li> <li>Recognise that</li> <li>Describe the si</li> <li>Identify the diff</li> <li>Construct and i</li> <li>Compare and g</li> </ul>	living things can be grou e classification keys to he environments can chang mple functions of the ba erent types of teeth in h nterpret a variety of food roup materials together,	things ped in a variety of way elp group, identify and ge and that this can som sic parts of the digestiv numans and their simple d chains, identifying pro-	matter s. name a variety of livin netimes pose danger ve system in humans. e functions. oducers, predators an they are solids, liquic	ng things in their local an 's to living things nd prey. ds or gases.	nd wider environment.
Component	& teeth <ul> <li>Recognise that</li> <li>Explore and use</li> <li>Recognise that</li> <li>Describe the si</li> <li>Identify the diff</li> <li>Construct and i</li> <li>Compare and g</li> <li>Observe that so</li> </ul>	living things can be grou e classification keys to he environments can chang mple functions of the ba ferent types of teeth in h nterpret a variety of food roup materials together, ome materials change sta	things ped in a variety of way elp group, identify and ge and that this can som sic parts of the digestiv numans and their simple d chains, identifying pro-	matter s. name a variety of livin netimes pose danger ve system in humans. e functions. oducers, predators an they are solids, liquic	ng things in their local an 's to living things nd prey.	nd wider environment.
Component	& teeth • Recognise that • Explore and use • Recognise that • Describe the si • Identify the diff • Construct and i • Compare and g • Observe that so happens in degrees Ce	living things can be grou e classification keys to he environments can chang mple functions of the ba erent types of teeth in h nterpret a variety of food roup materials together, ome materials change sta Isius (°C).	things ped in a variety of way elp group, identify and ge and that this can som usic parts of the digestiv numans and their simple d chains, identifying pro- d chains, identifying pro- according to whether ate when they are heat	matter s. name a variety of livin netimes pose danger ve system in humans. e functions. oducers, predators an they are solids, liquic ed or cooled, and me	ng things in their local an 's to living things nd prey. ds or gases. easure or research the ter	nd wider environment. mperature at which this
Component	& teeth • Recognise that • Explore and use • Recognise that • Describe the si • Identify the diff • Construct and i • Compare and g • Observe that so happens in degrees Ce	living things can be grou e classification keys to he environments can chang mple functions of the ba erent types of teeth in h nterpret a variety of food roup materials together, ome materials change sta Isius (°C).	things ped in a variety of way elp group, identify and ge and that this can som usic parts of the digestiv numans and their simple d chains, identifying pro- d chains, identifying pro- according to whether ate when they are heat	matter s. name a variety of livin netimes pose danger ve system in humans. e functions. oducers, predators an they are solids, liquic ed or cooled, and me	ng things in their local an 's to living things nd prey. ds or gases.	nd wider environment. mperature at which this
Component	& teeth <ul> <li>Recognise that</li> <li>Explore and use</li> <li>Recognise that</li> <li>Describe the si</li> <li>Identify the diff</li> <li>Construct and ii</li> <li>Compare and g</li> <li>Observe that so</li> <li>happens in degrees Cei</li> <li>Identify the partemperature.</li> </ul>	living things can be grou e classification keys to he environments can chang mple functions of the ba erent types of teeth in h nterpret a variety of food roup materials together, ome materials change sta Isius (°C).	things ped in a variety of way elp group, identify and ge and that this can som sic parts of the digestiv numans and their simple d chains, identifying pro- d chains, identifying pro- according to whether ate when they are heat and condensation in th	matter s. name a variety of livin netimes pose danger ve system in humans. e functions. oducers, predators an they are solids, liquic ed or cooled, and me ne water cycle and as	ng things in their local an 's to living things nd prey. ds or gases. easure or research the ten ssociate the rate of evapo	nd wider environment. mperature at which this
Component	& teeth      Recognise that     Explore and use     Recognise that     Describe the si     Identify the diff     Construct and i     Compare and g     Observe that so happens in degrees Cel     Identify the partemperature.     Identify how so     Recognise that	living things can be grou e classification keys to he environments can chang mple functions of the ba erent types of teeth in h nterpret a variety of food roup materials together, ome materials change sta Isius (°C). t played by evaporation unds are made, associat vibrations from sounds t	things ped in a variety of way elp group, identify and ge and that this can son sic parts of the digestive numans and their simple d chains, identifying pro- according to whether ate when they are heat and condensation in the ing some of them with cravel through a mediu	matter s. name a variety of livin netimes pose danger ve system in humans. e functions. oducers, predators an they are solids, liquic ed or cooled, and me ne water cycle and as something vibrating. m to the ear.	ng things in their local an rs to living things nd prey. ds or gases. easure or research the ten rsociate the rate of evapo	nd wider environment. mperature at which this
Component	& teeth      Recognise that     Explore and use     Recognise that     Describe the si     Identify the diff     Construct and i     Compare and g     Observe that so     happens in degrees Cel     Identify the partemperature.     Identify how so     Recognise that     Find patterns be	living things can be grou e classification keys to he environments can chang mple functions of the ba ferent types of teeth in h nterpret a variety of food roup materials together, ome materials change sta Isius (°C). t played by evaporation unds are made, associat vibrations from sounds t etween the pitch of a so	things ped in a variety of way elp group, identify and ge and that this can son sic parts of the digestiv numans and their simple d chains, identifying pro- according to whether ate when they are heat and condensation in the ing some of them with cravel through a mediu und and features of the	matter s. name a variety of livit netimes pose dangers ve system in humans. oducers, predators and they are solids, liquic ed or cooled, and me ne water cycle and as something vibrating. m to the ear. e object that produce	ng things in their local an 's to living things nd prey. ds or gases. easure or research the ten ssociate the rate of evapo ed it.	nd wider environment. mperature at which this
Component	& teeth      Recognise that     Explore and use     Recognise that     Describe the si     Identify the diff     Construct and i     Compare and g     Observe that so happens in degrees Cel     Identify the partemperature.     Identify how so     Recognise that     Find patterns bo	living things can be grou e classification keys to he environments can chang mple functions of the ba erent types of teeth in h nterpret a variety of food roup materials together, ome materials change sta Isius (°C). t played by evaporation unds are made, associat vibrations from sounds t	things ped in a variety of way elp group, identify and ge and that this can son sic parts of the digestive numans and their simple d chains, identifying pro- according to whether ate when they are heat and condensation in the ing some of them with travel through a mediu- und and features of the sound and the strength	matter s. name a variety of livin netimes pose dangers ve system in humans. e functions. oducers, predators an they are solids, liquic ed or cooled, and me ne water cycle and as something vibrating. m to the ear. e object that produce n of the vibrations tha	ng things in their local an is to living things nd prey. ds or gases. easure or research the ten ssociate the rate of evapo ed it. at produced it.	nd wider environment. mperature at which this

• 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.

## Working Scientifically:

- The children consider their prior knowledge when asking questions. They independently use a range of question stems. Where appropriate, they answer these questions.
- The children answer questions posed by the teacher.
- Given a range of resources, the children decide for themselves how to gather evidence to answer the question. They recognise when secondary sources can be used to answer questions that cannot be answered through practical work. They identify the type of enquiry that they have chosen to answer their question
- The children make systematic and careful observations.
- They use a range of equipment for measuring length, time, temperature and capacity. They use standard units for their measurements.
- The children select from a range of practical resources to gather evidence to answer questions generated by themselves or the teacher.
- They follow their plan to carry out: observations and tests to classify; comparative and simple fair tests; observations over time; and pattern seeking.

• The children sometimes decide how to record and present evidence. They record their observation e.g. using photographs, videos, pictures, labelled diagrams or writing. They record their measurements e.g. using tables, tally charts and bar charts (given templates, if required, to which they can add headings). They record classifications e.g. using tables, Venn diagrams, Carroll diagrams.

- Children are supported to present the same data in different ways in order to help with answering the question.
- Children answer their own and others' questions based on observations they have made, measurements they have taken or information they have gained from secondary sources. The answers are consistent with the evidence.
- Children interpret their data to generate simple comparative statements based on their evidence. They begin to identify naturally occurring patterns and causal relationships.
- They draw conclusions based on their evidence and current subject knowledge.
- They identify ways in which they adapted their method as they progressed or how they would do it differently if they repeated the enquiry.
- Children use their evidence to suggest values for different items tested using the same method e.g. the distance travelled by a car on an additional surface.
- Following a scientific experience, the children ask further questions which can be answered by extending the same enquiry.
- They communicate their findings to an audience both orally and in writing, using appropriate scientific vocabulary.

YEAR 5	Earth and space	Changes in humans from babies to old	Living things and their habitats	Properties and changes of materials	Forces
		age			
Component	Describe the diffe	J	es of a mammal, an amphibian, an insect	and a bird.	
Knowledge	<ul> <li>Describe the life p</li> <li>Describe the chan</li> <li>Compare and grou</li> <li>conductivity (electrical an</li> <li>Know that some r</li> <li>Use knowledge of</li> <li>evaporating.</li> <li>Give reasons, bas</li> <li>wood and plastic.</li> <li>Demonstrate that</li> <li>Explain that some</li> <li>changes associated with</li> <li>Describe the mov</li> <li>Describe the Mov</li> <li>Describe the Sun,</li> <li>Use the idea of th</li> <li>Explain that unsup</li> <li>object.</li> <li>Identify the effect</li> <li>Recognise that so</li> <li>Working Scientifically</li> <li>The children select</li> <li>with a suitable sca</li> <li>During an enquiry (pattern seeking); (researching); in c</li> <li>The children decided and the solution of the select of the selec</li></ul>	process of reproduction ges as humans develop up together everyday and thermal), and respon- naterials will dissolve solids, liquids and ga ed on evidence from of dissolving, mixing an changes result in the burning and the action ement of the Earth, and ement of the Earth, and ement of the Moon re Earth and Moon as and e Earth's rotation to e oported objects fall to the mechanisms, inclue to measuring equipment ale. they make decisions adjust the observation order to get accurate of the how to record and , observational drawin line graphs and scatt	on in some plants and animals. op to old age. materials on the basis of their properties onse to magnets. in liquid to form a solution and describe h ses to decide how mixtures might be sepa comparative and fair tests, for the particu d changes of state are reversible changes formation of new materials, and that this n of acid on bicarbonate of soda. nd other planets, relative to the Sun in the	a, including their hardness, a how to recover a substance arated, including through fi ilar uses of everyday mater s kind of change is not usua e solar system. ovement of the Sun across gravity acting between the een moving surfaces. haller force to have a great ler, tape measure or trund eadings (fair testing); incre time); or check further secco ons e.g. using annotated ph g. They record measuremer using tables, Venn diagram	e from a solution. iltering, sieving and rials, including metals, ally reversible, including the sky. Earth and the falling er effect. le wheel, force meter ase the sample size ondary sources hotographs, videos, hts e.g. using tables, tally

	<ul> <li>information they h groups, secondary</li> <li>They talk about ho</li> <li>They talk about ho</li> <li>They talk about ho</li> <li>In their conclusion that do not fit the</li> <li>They evaluate, for the credibility of se</li> <li>They identify any l</li> <li>They communicate</li> </ul>	ave gained from seco sources and their scient w their scientific idea w new discoveries ch s, children: identify ca overall pattern; and e example, the choice of econdary sources use imitations that reduce e their findings to an a	ondary sources. When entific understanding, as change due to new e ange scientific underst ausal relationships and explain their findings us of method used, the co d. e the trust they have in audience using relevan	doing this, they dis supports or refutes evidence that they tanding. I patterns in the na sing their subject k ontrol of variables, n their data.	have gathered. tural world from their evidence; identify results nowledge. the precision and accuracy of measurements and
YEAR 6	Evolution and	Living things	Light	Electricity	Animals including humans – circulatory
	inheritance	and their habitats			system, diet and exercise
Component Knowledge	similarities and difference Give reasons for cl Identify and name blood. Recognise the imp Describe the ways Recognise that livi Earth millions of ye Recognise that livi Identify how anima Recognise that ligh Use the idea that l Explain that we see Use the idea that l Associate the brigh Compare and give and the on/off position of	s, including micro-org assifying plants and a the main parts of the act of diet, exercise, o in which nutrients an ng things have change ears ago. ng things produce off als and plants are ada at appears to travel in ight travels in straight e things because light ight travels in straight ntness of a lamp or th reasons for variations switches. mbols when represen	anisms, plants and an nimals based on specie human circulatory sys drugs and lifestyle on t d water are transporte ed over time and that f spring of the same kine pted to suit their envir straight lines. I lines to explain that of travels from light sour clines to explain why s e volume of a buzzer v	imals. fic characteristics. stem, and describe he way their bodie ed within animals, i fossils provide info d, but normally off ronment in differer objects are seen be rces to our eyes or hadows have the s with the number ar function, including	

<ul> <li>The children select measuring equipment to give the most precise results e.g. ruler, tape measure or trundle wheel, force meter with a suitable scale.</li> <li>During an enquiry, they make decisions e.g. whether they need to: take repeat readings (fair testing); increase the sample size (pattern seeking); adjust the observation period and frequency (observing over time); or check further secondary sources (researching); in order to get accurate data (closer to the true value).</li> <li>The children decide how to record and present evidence. They record observations e.g. using annotated photographs, videos, labelled diagrams, observational drawings, labelled scientific diagrams or writing. They record measurements e.g. using tables, tally charts, bar charts, line graphs and scatter graphs. They record classifications e.g. using tables. Venn diagrams, Carroll diagrams and classification keys.</li> <li>Children present the same data in different ways in order to help with answering the question.</li> <li>Children answer their own and others' questions based on observations they have made, measurements they have taken or information they have gained from secondary sources. When doing this, they discuss whether other evidence e.g. from other groups, secondary sources and their scientific understanding, supports or refutes their answer.</li> <li>They talk about how their scientific ideas change due to new evidence that they have gathered.</li> <li>They talk about how new discoveries change scientific understanding.</li> <li>In their conclusions, children: identify causal relationships and patterns in the natural world from their evidence; identify results that do not fit the overall pattern; and explain their findings using their subject knowledge.</li> <li>They evaluate, for example, the choice of method used, the control of variables, the precision and accuracy of measurements and the credibility of secondary sources used.</li> <li>They identify any limitations that reduce the trust they have in their data</li></ul>	
<ul> <li>(pattern seeking); adjust the observation period and frequency (observing over time); or check further secondary sources (researching); in order to get accurate data (closer to the true value).</li> <li>The children decide how to record and present evidence. They record observations e.g. using annotated photographs, videos, labelled diagrams, observational drawings, labelled scientific diagrams or writing. They record measurements e.g. using tables, tally charts, bar charts, line graphs and scatter graphs. They record classifications e.g. using tables, Venn diagrams, Carroll diagrams and classification keys.</li> <li>Children present the same data in different ways in order to help with answering the question.</li> <li>Children answer their own and others' questions based on observations they have made, measurements they have taken or information they have gained from secondary sources. When doing this, they discuss whether other evidence e.g. from other groups, secondary sources and their scientific understanding, supports or refutes their answer.</li> <li>They talk about how new discoveries change scientific understanding.</li> <li>In their conclusions, children: identify causal relationships and patterns in the natural world from their evidence; identify results that do not fit the overall pattern; and explain their findings using their subject knowledge.</li> <li>They valuate, for example, the choice of method used, the control of variables, the precision and accuracy of measurements and the credibility of secondary sources used.</li> <li>They identify any limitations that reduce the trust they have in their data.</li> <li>They identify any limitations that reduce the trust they have in their data.</li> <li>Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and</li> </ul>	
<ul> <li>labelled diagrams, observational drawings, labelled scientific diagrams or writing. They record measurements e.g. using tables, tally charts, bar charts, line graphs and scatter graphs. They record classifications e.g. using tables, Venn diagrams, Carroll diagrams and classification keys.</li> <li>Children present the same data in different ways in order to help with answering the question.</li> <li>Children answer their own and others' questions based on observations they have made, measurements they have taken or information they have gained from secondary sources. When doing this, they discuss whether other evidence e.g. from other groups, secondary sources and their scientific understanding, supports or refutes their answer.</li> <li>They talk about how their scientific ideas change due to new evidence that they have gathered.</li> <li>They talk about how new discoveries change scientific understanding.</li> <li>In their conclusions, children: identify causal relationships and patterns in the natural world from their evidence; identify results that do not fit the overall pattern; and explain their findings using their subject knowledge.</li> <li>They evaluate, for example, the choice of method used, the control of variables, the precision and accuracy of measurements and the credibility of secondary sources used.</li> <li>They identify any limitations that reduce the trust they have in their data.</li> <li>They communicate their findings to an audience using relevant scientific language and illustrations.</li> <li>Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and</li> </ul>	(pattern seeking); adjust the observation period and frequency (observing over time); or check further secondary sources
<ul> <li>Children answer their own and others' questions based on observations they have made, measurements they have taken or information they have gained from secondary sources. When doing this, they discuss whether other evidence e.g. from other groups, secondary sources and their scientific understanding, supports or refutes their answer.</li> <li>They talk about how their scientific ideas change due to new evidence that they have gathered.</li> <li>They talk about how new discoveries change scientific understanding.</li> <li>In their conclusions, children: identify causal relationships and patterns in the natural world from their evidence; identify results that do not fit the overall pattern; and explain their findings using their subject knowledge.</li> <li>They evaluate, for example, the choice of method used, the control of variables, the precision and accuracy of measurements and the credibility of secondary sources used.</li> <li>They identify any limitations that reduce the trust they have in their data.</li> <li>They communicate their findings to an audience using relevant scientific language and illustrations.</li> <li>Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and</li> </ul>	labelled diagrams, observational drawings, labelled scientific diagrams or writing. They record measurements e.g. using tables, tally charts, bar charts, line graphs and scatter graphs. They record classifications e.g. using tables, Venn diagrams, Carroll diagrams and
<ul> <li>information they have gained from secondary sources. When doing this, they discuss whether other evidence e.g. from other groups, secondary sources and their scientific understanding, supports or refutes their answer.</li> <li>They talk about how their scientific ideas change due to new evidence that they have gathered.</li> <li>They talk about how new discoveries change scientific understanding.</li> <li>In their conclusions, children: identify causal relationships and patterns in the natural world from their evidence; identify results that do not fit the overall pattern; and explain their findings using their subject knowledge.</li> <li>They evaluate, for example, the choice of method used, the control of variables, the precision and accuracy of measurements and the credibility of secondary sources used.</li> <li>They identify any limitations that reduce the trust they have in their data.</li> <li>They communicate their findings to an audience using relevant scientific language and illustrations.</li> <li>Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and</li> </ul>	<ul> <li>Children present the same data in different ways in order to help with answering the question.</li> </ul>
<ul> <li>They talk about how new discoveries change scientific understanding.</li> <li>In their conclusions, children: identify causal relationships and patterns in the natural world from their evidence; identify results that do not fit the overall pattern; and explain their findings using their subject knowledge.</li> <li>They evaluate, for example, the choice of method used, the control of variables, the precision and accuracy of measurements and the credibility of secondary sources used.</li> <li>They identify any limitations that reduce the trust they have in their data.</li> <li>They communicate their findings to an audience using relevant scientific language and illustrations.</li> <li>Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and</li> </ul>	information they have gained from secondary sources. When doing this, they discuss whether other evidence e.g. from other
<ul> <li>In their conclusions, children: identify causal relationships and patterns in the natural world from their evidence; identify results that do not fit the overall pattern; and explain their findings using their subject knowledge.</li> <li>They evaluate, for example, the choice of method used, the control of variables, the precision and accuracy of measurements and the credibility of secondary sources used.</li> <li>They identify any limitations that reduce the trust they have in their data.</li> <li>They communicate their findings to an audience using relevant scientific language and illustrations.</li> <li>Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and</li> </ul>	• They talk about how their scientific ideas change due to new evidence that they have gathered.
<ul> <li>that do not fit the overall pattern; and explain their findings using their subject knowledge.</li> <li>They evaluate, for example, the choice of method used, the control of variables, the precision and accuracy of measurements and the credibility of secondary sources used.</li> <li>They identify any limitations that reduce the trust they have in their data.</li> <li>They communicate their findings to an audience using relevant scientific language and illustrations.</li> <li>Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and</li> </ul>	They talk about how new discoveries change scientific understanding.
<ul> <li>the credibility of secondary sources used.</li> <li>They identify any limitations that reduce the trust they have in their data.</li> <li>They communicate their findings to an audience using relevant scientific language and illustrations.</li> <li>Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and</li> </ul>	
<ul> <li>They communicate their findings to an audience using relevant scientific language and illustrations.</li> <li>Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and</li> </ul>	
Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and	<ul> <li>They identify any limitations that reduce the trust they have in their data.</li> </ul>
	<ul> <li>They communicate their findings to an audience using relevant scientific language and illustrations.</li> </ul>
	• Children use the scientific knowledge gained from enquiry work to make predictions they can investigate using comparative and