

Science Curriculum Year 3 and 4 - Cycle A

Purpose of study

A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

The national curriculum for science aims to ensure that all pupils:

- A develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- 4 develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- A are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Scientific knowledge and conceptual understanding

The programmes of study describe a sequence of knowledge and concepts. While it is important that pupils make progress, it is also vitally important that they develop secure understanding will not allow genuine progression: pupils may struggle at key points of transition (such as between primary and secondary school), build up serious misconceptions, and/or have significant difficulties in understanding higher-order content. Pupils should be able to describe associated processes and key characteristics in common language, but they should also be familiar with, and use, technical terminology accurately and precisely. They should also apply their mathematical knowledge to their understanding of science, including collecting, presenting and

analysing data. The social and economic implications of science are important but, generally, they are taught most appropriately within the wider school curriculum: teachers will wish to use different contexts to maximise their pupils' engagement with and motivation to study science. Attainment targets - By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study. **Key Stage 1** Lower Key Stage 2 Upper Key Stage 2 The principal focus of science teaching in key stage 1 is to enable pupils to experience and observe The principal focus of science teaching in lower key stage 2 is to enable pupils to broaden their The principal focus of science teaching in upper key stage 2 is to enable pupils to develop a deeper phenomena, looking more closely at the natural and humanly-constructed world around them. They scientific view of the world around them. They should do this through exploring, talking about, should be encouraged to be curious and ask questions about what they notice. They should be testing and developing ideas about everyday phenomena and the relationships between living things about their ideas; asking their own questions about scientific phenomena; and analysing functions, helped to develop their understanding of scientific ideas by using different types of scientific enquiry and familiar environments, and by beginning to develop their ideas about functions, relationships to answer their own questions, including observing changes over a period of time, noticing patterns, and interactions. They should ask their own questions about what they observe and make some grouping and classifying things, carrying out simple comparative tests, and finding things out using decisions about which types of scientific enquiry are likely to be the best ways of answering them, secondary sources of information. They should begin to use simple scientific language to talk about

Most of the learning about science should be done through the use of first-hand practical experiences, but there should also be some use of appropriate secondary sources, such as books, photographs and videos. 'Working scientifically' is described separately in the programme of study, but must always be taught through and clearly related to the teaching of substantive science content in the programme of study. Throughout the notes and guidance, examples show how scientific methods and skills might be linked to specific elements of the content. Pupils should read and spell scientific vocabulary at a level consistent with their increasing word reading and spelling knowledge at key stage 1.

what they have found out and communicate their ideas to a range of audiences in a variety of ways.

including observing changes over time, noticing patterns, grouping and classifying things, carrying out simple comparative and fair tests and finding things out using secondary sources of information. They should draw simple conclusions and use some scientific language, first, to talk about and, later, to write about what they have found out.

'Working scientifically' must always be taught through and clearly related to substantive science content in the programme of study. Throughout the notes and guidance, examples show how scientific methods and skills might be linked to specific elements of the content. Pupils should read and spell scientific vocabulary correctly and with confidence, using their growing word reading and spelling knowledge.

understanding of a wide range of scientific ideas. They should do this through exploring and talking relationships and interactions more systematically. At upper key stage 2, they should encounter more abstract ideas and begin to recognise how these ideas help them to understand and predict how the world operates. They should also begin to recognise that scientific ideas change and develop over time. They should select the most appropriate ways to answer science questions using different types of scientific enquiry, including observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests and finding things out using a wide range of secondary sources of information. Pupils should draw conclusions based on their data and observations, use evidence to justify their ideas, and use their scientific knowledge and understanding to explain their findings. 'Working and thinking scientifically' is described separately at the beginning of the programme of study, but must always be taught through and clearly related to substantive science content in the programme of study. Throughout the notes and guidance, examples show how scientific methods and skills might be linked to specific elements of the content. Pupils should read, spell and pronounce scientific vocabulary correctly.

Working Scientifically - The nature, processes and methods of science - 'Working scientifically' specifies the understanding of the nature, processes and methods of science for each year group. It should not be taught as a separate strand. The notes and guidance give examples of how 'working scientifically' might be embedded within the content of biology, chemistry and physics, focusing on the key features of scientific enquiry, so that pupils learn to use a variety of approaches to answer relevant scientific questions. These types of scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources. Pupils should seek answers to questions through collecting, analysing and presenting data. 'Working scientifically' will be developed further at key stages 3 and 4, once pupils have built up sufficient understanding of science to engage meaningfully in more sophisticated discussion of experimental design and control.

During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- ♣ asking simple questions and recognising that they can be answered in different ways
- ♣ observing closely, using simple equipment
- performing simple tests
- identifying and classifying

Plants

- using their observations and ideas to suggest answers to questions
- A gathering and recording data to help in answering questions.

During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- A asking relevant questions and using different types of scientific enquiries to answer them
- * setting up simple practical enquiries, comparative and fair tests
- A making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data
- A gathering, recording, classifying and presenting data in a variety of ways to help in answering
- * recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts,
- * 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. **Plants**

During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- A planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- A taking measurements, using a range of scientific equipment, with increasing accuracy and 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
- ♣ identifying scientific evidence that has been used to support or refute ideas or arguments

Pupils should be taught to:	Pupils should be taught to:	
♣ identify and name a variety of common wild and garden plants, including deciduous and of a	* identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves	
variety of common flowering plants, including trees.	and flowers	
Pupils should be taught to:	* explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and	
♣ observe and describe how seeds and bulbs grow into mature plants	room to grow) and how they vary from plant to plant	
♣ find out and describe how plants need water, light and a suitable temperature to grow and stay	♣ investigate the way in which water is transported within plants	
healthy.	* explore the part that flowers play in the life cycle of flowering plants, including pollination, seed	
	formation and seed dispersal.	
Animals including Humans	Animals including Humans	Animals including Humans
Pupils should be taught to:	Pupils should be taught to:	Pupils should be taught to:
♣ identify and name a variety of common animals including fish, amphibians, reptiles, birds and	4 identify that animals, including humans, need the right types and amount of nutrition, and that	♣ describe the changes as humans develop to old age.
mammals	they cannot make their own food; they get nutrition from what they eat	Pupils should be taught to:
♣ identify and name a variety of common animals that are carnivores, herbivores and omnivores	4 identify that humans and some other animals have skeletons and muscles for support, protection	4 identify and name the main parts of the human circulatory system, and describe the functions of the
♣ describe and compare the structure of a variety of common animals (fish, amphibians, reptiles,	and movement.	heart, blood vessels and blood
birds and mammals, including pets)	Pupils should be taught to:	♣ recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
4 identify, name, draw and label the basic parts of the human body and say which part of the body is	♣ describe the simple functions of the basic parts of the digestive system in humans	describe the ways in which nutrients and water are transported within animals, including humans.
associated with each sense.	♣ identify the different types of teeth in humans and their simple functions	
Pupils should be taught to:	construct and interpret a variety of food chains, identifying producers, predators and prey.	
A notice that animals, including humans, have offspring which grow into adults		
4 find out about and describe the basic needs of animals, including humans, for survival (water, food		
and air)		
A describe the importance for humans of exercise, eating the right amounts of different types of		
food, and hygiene.		
Everyday Materials	Rocks	Properties and changes of Materials
Pupils should be taught to:	Pupils should be taught to:	Pupils should be taught to:
♣ distinguish between an object and the material from which it is made	& compare and group together different kinds of rocks on the basis of their appearance and simple	scompare and group together everyday materials on the basis of their properties, including their
♣ identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and	physical properties	hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
rock	& describe in simple terms how fossils are formed when things that have lived are trapped within rock	* know that some materials will dissolve in liquid to form a solution, and describe how to recover a
♣ describe the simple physical properties of a variety of everyday materials	♣ recognise that soils are made from rocks and organic matter.	substance from a solution
A compare and group together a variety of everyday materials on the basis of their simple physical		♣ use knowledge of solids, liquids and gases to decide how mixtures might be separated, including
properties.		through filtering, sieving and 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
		sexplain 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.
Uses of Everyday Materials	Light	Light
Pupils should be taught to:	Pupils should be taught to:	Pupils should be taught to:
. identify and compare the suitability of a variety of everyday materials, including wood, metal,	* recognise that they need light in order to see things and that dark is the absence of light	♣ recognise that light appears to travel in straight lines
plastic, glass, brick, rock, paper and cardboard for particular uses	A notice that light is reflected from surfaces	♣ use the idea that light travels in straight lines to explain that objects are seen because they give out
4 find out how the shapes of solid objects made from some materials can be changed by squashing,	* recognise that light from the sun can be dangerous and that there are ways to protect their eyes	or reflect light into the eye
bending, twisting and stretching.	* recognise that shadows are formed when the light from a light source is blocked by an opaque	♣ explain that we see things because light travels from light sources to our eyes or from light sources
	object	to objects and then to our eyes
	& 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.
Seasonal Changes	Forces and Magnets	Earth and Space
Pupils should be taught to:	Pupils should be taught to:	Pupils should be taught to:
♣ observe changes across the four seasons	♣ compare how things move on different surfaces	♣ describe the movement of the Earth, and other planets, relative to the Sun in the solar system
A observe and describe weather associated with the seasons and how day length varies.	A notice that some forces need contact between two objects, but magnetic forces can act at a	♣ describe the movement of the Moon relative to the Earth
	distance	♣ describe the Sun, Earth and Moon as approximately spherical bodies ♣ use the idea of the Earth's
	♣ observe how magnets attract or repel each other and attract some materials and not others	rotation to explain day and night and the apparent movement of the sun across the sky.
	& 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	
	♣ describe magnets as having two poles	

	* predict whether two magnets will attract or repel each other, depending on which poles are facing.	
Living Things and their habitats	Living Things and their habitats	Living Things and their habitats
Pupils should be taught to:	Pupils should be taught to:	Pupils should be taught to:
♣ explore and compare the differences between things that are living, dead, and things that have	♣ 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
never been alive	4 explore and use classification keys to help group, identify and name a variety of living things in their	describe the life process of reproduction in some plants and animals.
♣ identify that most living things live in habitats to which they are suited and describe how different	local and wider environment	Pupils should be taught to:
habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other	* recognise that environments can change and that this can sometimes pose dangers to living things.	describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals
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.		* give reasons for classifying plants and animals based on specific characteristics.
	States of matter	Forces:
	Pupils should be taught to:	Pupils should be taught to:
	4 compare and group materials together, according to whether they are solids, liquids or gases	* explain that unsupported objects fall towards the Earth because of the force of gravity acting
	4 observe that some materials change state when they are heated or cooled, and measure or	between the Earth and the falling object
	research the temperature at which this happens in degrees Celsius (°C)	4 identify the effects of air resistance, water resistance and friction, that act between moving surfaces
	4 identify the part played by evaporation and condensation in the water cycle and associate the rate	* recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a
	of evaporation with temperature.	greater effect.
	Sound	Evolution and Inheritance
	Pupils should be taught to:	Pupils should be taught to:
	♣ identify how sounds are made, associating some of them with something vibrating	* recognise that living things have changed over time and that fossils provide information about living
	♣ recognise that vibrations from sounds travel through a medium to the ear	things that inhabited the Earth millions of years ago
	♣ 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 living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
	* recognise that sounds get fainter as the distance from the sound source increases.	* identify how animals and plants are adapted to suit their environment in different ways and that
	* recognise that sounds get fainter as the distance from the sound source increases.	adaptation may lead to evolution
	Electricity	Electricity
	Pupils should be taught to:	Pupils should be taught to:
	♣ 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
	♣ construct a simple series electrical circuit, identifying and naming its basic parts, including cells,	used in the circuit
	wires, bulbs, switches and buzzers	* compare and give reasons for variations in how components function, including the brightness of
	♣ identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp	bulbs, the loudness of buzzers and the on/off position of switches
	is part of a complete loop with a battery	♣ use recognised symbols when representing a simple circuit in a diagram.
	♣ 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.	
	Non- Negotiables	

W1: Ask relevant questions. W2: Set up simple, practical enquiries and comparative and fair tests. W3: Make accurate measurements using standard units, using a range of equipment, e.g. thermometers and data loggers. W4: Gather, record, classify and present data in a variety of ways to help in answering questions.

W5: Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables. W6: Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. W7: Use results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests. W8: Identify differences, similarities or changes related to simple, scientific ideas and processes. W9: Use straightforward, scientific evidence to answer questions or to support their findings.

Vocabulary: Investigation, enquiry, what to change, what we used, what we found out Investigation, enquiry, prediction, variable, dependent variable, constant, patterns, equipment, apparatus, method, results, conclusion

	Autumn		Spring		Summer	
	How do we keep ourselves healthy?	How do we see things?	How are rocks formed?	How do plants grow by themselves?	How do magnets interact?	How have humans impacted on the
	Animals including humans - Nutrition, teeth and	Light	Rocks	Plants – structure, functions and plant life	Forces- Magnets	environment?
	food chains			cycle.		Living things and their habitats
S	Understand Animals and Humans	Investigate Light and Seeing	Rocks and Soils	Understanding plants	P2: Notice that some forces need contact	Investigate Living Things classification
hie	B5: Identify that animals, including humans, need	P7: Recognise that they need light in order to see		B1: Identify and describe the functions of	between two objects, but magnetic forces	B6: Construct and interpret a variety of
arc	the right types and amounts of nutrition, that they	things and that dark is the absence of light.	C1: Compare and group together different kinds	different parts of flowering plants: roots, stem,	can act at a distance.	food chains, identifying, produces, prey
er	cannot make their own food and they get nutrition	P8: Notice that light is reflected from surfaces.	of rocks on the basis of their simple, physical	leaves and flowers.		and predators.
茔	from what they eat.		properties.			

	DO. Identify the different types of teeth in hymner	DO: Docomics that light from the own can be	C2. Delete the simple why sized group stice of	DA. Fundana the male of flavours in the life much	D2. Observe have recorded attract or recol	P10. Passarias that living things are he
	B9: Identify the different types of teeth in humans and their simple functions.	P9: Recognise that light from the sun can be dangerous and that there are ways to protect	C2: Relate the simple physical properties of some rocks to their formation (igneous or	B4: Explore the role of flowers in the life cycle of flowering plants, including pollination, seed	P3: Observe how magnets attract or repel each other and attract some materials and	B10: Recognise that living things can be grouped in a variety of ways.
	·	their eyes.	sedimentary).	formation and seed dispersal.	not others.	B11: Explore and use classification keys.
		P10: Recognise that shadows are formed when	C3: Describe in simple terms how fossils are	·	P4: Compare and group together a variety	B12: Recognise that environments can
		the light from a light source is blocked by a solid	formed when things that have lived are trapped		of everyday materials on the basis of	change and that this can sometimes pose
		object.	within sedimentary rock.		whether they are attracted to a magnet,	dangers to specific habitats.
		P11: Find patterns in the way that the size of	C4: Recognise that soils are made from rocks		and identify some magnetic materials.	
		shadows change.	and organic matter.		P5: Describe magnets as having two poles.	
					P6: Predict whether two magnets will	
					attract or repel each other, depending on	
					which poles are facing.	
	Model of teeth, skeleton model, body, Eat Well Plate, model/fabric internal organs, Xrays (teeth,	Feely bags, 5 objects to place inside them- for example, an orange, a shell, a pine cone, bubble	Pipettes, beakers, stop watches, graded sieves, range of rocks, fossil samples, plasticine,	Dried beans, cotton wool, water, clear pots/jars, celery, food dye, plastic cups/beakers, paper		Images of animals and their habitats, trowel, magnifying glasses, classification
	bones etc) bone samples (animals), Small pieces of	wrap, pumice stone, a dice, an avocado or cotton	petroleum jelly/Vaseline, plaster of Paris,	towels, life-cycle of plant diagrams/models,		keys (UK animals), digital cameras, access
	card, red and white plasticine, I Know Why I Brush	wool, torches, reflective and non-reflective	chocolate, tweezers, crisps, cocktail sticks,	flowers to dissect, magnifying glasses, tweezers		to internet,
Ses	my Teeth by Kate Rowan. Cola, milk, water, orange	materials to test, mirrors, coloured card/paper				
Resources	juice, blackcurrant juice, vinegar. 6 hard-boiled eggs, 6 screw top jars. Materials to make posters.	for UV investigation, range of materials to test making shadows - cotton, cling film, net curtains,				
eso	Access to internet.	voile, upholstery fabric, blackout curtain lining,				
Ř		muslin, tracing paper.				
	Bones, muscles, skull, ribs, skeleton, support,	light, source, dark, reflect, see, illuminate, mirror,	Sandstone, limestone, granite, marble, pumice,	Air, light, water, soil, nutrients, reproduction,	magnetic, attract, repel, poles (north /	Habitat, characteristic, group, sort,
	protection Mouth, tongue, teeth, canine, incisor,	light, smooth, shiny, rays, rough visible smooth,	slate, crystals, properties, permeable / impermeable, hardness, sedimentary, igneous,	seed formation, dispersal, germination,	south) friction, resistance	organism, criteria, vertebrates, invertebrates, mammals, amphibians,
	molar, milk teeth, gums, oesophagus, stomach,	shiny, rays, rough, scatter, reverse, beam, sun,	metamorphic, fossils, soil, organic matter,	pollination, transportation, species, location		insects, reptiles, fish and birds, snails,
	small intestine, large intestine, herbivore, carnivore, omnivore, data, table, tally,	beneficial, dangerous, glare, bright, damage, UV light, UV rating, visible spectrum, pupil, retina,	humus	(photosynthesis)		slugs, worms, spiders, insects,
	carbohydrates, proteins, dairy, fats, sugars,	protect, direct, sunglasses, hat, brim, travel,				environment, exo skeleton, adaptation
<u>a</u>	vitamins, minerals, fibre, growth, repair, health,	straight, opaque, translucent, transparent, block,				
nq	energy, decay, plaque, fair test, dependent	shadow.				
Vocabulary	variable, independent variable					
>						
	The names of animals from the 5 groups	 A habitat is a place where living things 	 Animals are suited to different 	 Light travels in straight lines as a 	 Shadows are formed when a light 	 The main parts of a flowering
		live. This is where they find shelter	habitate	wave and can be reflected off	1	_
	of vertebrates. Common characteristics for animals	live. This is where they find shelter and food.	habitats. • Animals and plants have specific	wave and can be reflected off surfaces.	source is blocked by a solid	plant are the roots, stem, leaves
		·	 habitats. Animals and plants have specific characteristics to help support them 		1	plant are the roots, stem, leaves and flowers. (Children should
	 Common characteristics for animals from each group. Carnivores eat meat, herbivores eat 	and food.	 Animals and plants have specific characteristics to help support them in the environment that they live in 	surfaces.	source is blocked by a solid object. • Fossils are formed when and animal or plant dies and it is	plant are the roots, stem, leaves and flowers. (Children should define the function of these.)
	 Common characteristics for animals from each group. 	 and food. Examples of habitats include, the forest, the desert, the artic tundra, the ocean. 	 Animals and plants have specific characteristics to help support them in the environment that they live in Acidic food and drink can cause tooth 	 surfaces. Light from the sun can be dangerous and sun cream and sun glasses can protect us. 	source is blocked by a solid object. • Fossils are formed when and animal or plant dies and it is quickly buried in sediment	plant are the roots, stem, leaves and flowers. (Children should define the function of these.) The main parts of a flower are
	 Common characteristics for animals from each group. Carnivores eat meat, herbivores eat 	 and food. Examples of habitats include, the forest, the desert, the artic tundra, the ocean. The 4 teeth types are canines, molars, 	 Animals and plants have specific characteristics to help support them in the environment that they live in Acidic food and drink can cause tooth decay. 	surfaces. Light from the sun can be dangerous and sun cream and sun glasses can protect us. Rock types include igneous	source is blocked by a solid object. Fossils are formed when and animal or plant dies and it is quickly buried in sediment Soil is made from rocks and	plant are the roots, stem, leaves and flowers. (Children should define the function of these.) The main parts of a flower are the petals, stamen, carpe, style,
ķ	 Common characteristics for animals from each group. Carnivores eat meat, herbivores eat 	 and food. Examples of habitats include, the forest, the desert, the artic tundra, the ocean. 	 Animals and plants have specific characteristics to help support them in the environment that they live in Acidic food and drink can cause tooth decay. The 5 main food groups are 	 surfaces. Light from the sun can be dangerous and sun cream and sun glasses can protect us. 	source is blocked by a solid object. • Fossils are formed when and animal or plant dies and it is quickly buried in sediment	plant are the roots, stem, leaves and flowers. (Children should define the function of these.) The main parts of a flower are the petals, stamen, carpe, style, stigma and pollen.
ıback	 Common characteristics for animals from each group. Carnivores eat meat, herbivores eat 	 and food. Examples of habitats include, the forest, the desert, the artic tundra, the ocean. The 4 teeth types are canines, molars, 	 Animals and plants have specific characteristics to help support them in the environment that they live in Acidic food and drink can cause tooth decay. 	surfaces. Light from the sun can be dangerous and sun cream and sun glasses can protect us. Rock types include igneous sedimentary and metamorphic (with	source is blocked by a solid object. Fossils are formed when and animal or plant dies and it is quickly buried in sediment Soil is made from rocks and	plant are the roots, stem, leaves and flowers. (Children should define the function of these.) The main parts of a flower are the petals, stamen, carpe, style,
lashback	 Common characteristics for animals from each group. Carnivores eat meat, herbivores eat 	 and food. Examples of habitats include, the forest, the desert, the artic tundra, the ocean. The 4 teeth types are canines, molars, 	 Animals and plants have specific characteristics to help support them in the environment that they live in Acidic food and drink can cause tooth decay. The 5 main food groups are fruits/vegetables, carbohydrates, 	surfaces. Light from the sun can be dangerous and sun cream and sun glasses can protect us. Rock types include igneous sedimentary and metamorphic (with explanations of how they are	source is blocked by a solid object. Fossils are formed when and animal or plant dies and it is quickly buried in sediment Soil is made from rocks and	plant are the roots, stem, leaves and flowers. (Children should define the function of these.) The main parts of a flower are the petals, stamen, carpe, style, stigma and pollen. Magnetic forces can act at a
Flashback	 Common characteristics for animals from each group. Carnivores eat meat, herbivores eat plants and omnivores eat both. 	 and food. Examples of habitats include, the forest, the desert, the artic tundra, the ocean. The 4 teeth types are canines, molars, incisors and wisdom. 	 Animals and plants have specific characteristics to help support them in the environment that they live in Acidic food and drink can cause tooth decay. The 5 main food groups are fruits/vegetables, carbohydrates, protein, dairy, oils and spreads 	surfaces. Light from the sun can be dangerous and sun cream and sun glasses can protect us. Rock types include igneous sedimentary and metamorphic (with explanations of how they are formed).	source is blocked by a solid object. Fossils are formed when and animal or plant dies and it is quickly buried in sediment Soil is made from rocks and organic matter.	plant are the roots, stem, leaves and flowers. (Children should define the function of these.) The main parts of a flower are the petals, stamen, carpe, style, stigma and pollen. Magnetic forces can act at a distance.
Flashback	Common characteristics for animals from each group. Carnivores eat meat, herbivores eat plants and omnivores eat both. WALT: recognise diets of different people	and food. Examples of habitats include, the forest, the desert, the artic tundra, the ocean. The 4 teeth types are canines, molars, incisors and wisdom. WALT: recognise that we need light in order to	Animals and plants have specific characteristics to help support them in the environment that they live in Acidic food and drink can cause tooth decay. The 5 main food groups are fruits/vegetables, carbohydrates, protein, dairy, oils and spreads WALT: know naturally occurring rocks and	surfaces. • Light from the sun can be dangerous and sun cream and sun glasses can protect us. • Rock types include igneous sedimentary and metamorphic (with explanations of how they are formed). WALT: know the main parts of a flowering	source is blocked by a solid object. Fossils are formed when and animal or plant dies and it is quickly buried in sediment Soil is made from rocks and	plant are the roots, stem, leaves and flowers. (Children should define the function of these.) • The main parts of a flower are the petals, stamen, carpe, style, stigma and pollen. • Magnetic forces can act at a distance. WALT: identify a variety of habitats and
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		 how to display data in tables and bar charts and use these to look for patterns 				 what happens when magnets are put together 	
		and trends.				Parting	
		WALT: know the 5 food groups and the	WALT: investigate which surfaces reflect	WALT: group rocks according to their	WALT: identify and describe the functions	WALT: identify magnetic materials.	WALT: group organisms according to
		proportions of each needed to create a	light most effectively Activities: Discuss the characteristics of	characteristics	of the roots of flowering plants.	Activities Children will recen how	their characteristics.
		healthy, balanced diet Activities: What do we need to eat to stay	reflective surfaces. Explain how mirrors are	Activities: Children will consider ways in	Activities: Children will recap the main	Activities: Children will recap how magnets behave when they are put	Activities: Children will organise animals into groups according to some
1		healthy? What are the food groups? Model	made and the image reflected is reversed.	which rocks can be sorted according to	features of flowering plants, then learn	together before testing a variety of	of their characteristics. They may then
		Eat Well Plate. Investigate the amounts of	Discussing and testing reflective materials to	different criteria. They may then either sort	about how roots grow, and what their	objects to see if they are magnetic.	either continue to sort animals
		each type pf food needed to be eaten to stay	use the best materials to produce a	given rock samples, or study and sort	functions are. They will then plan an	Children will make predictions based on	according some of their own criteria,
		healthy.	reflective book bag/T-Shirt	pictures of rocks according to various	experiment where they will grow beans,	their prior knowledge then carry out an	or examine some animals and group
		Children will know:	Children will know:	criteria.	measuring root growth.	investigation to check if their	them based on observations.
		 the names of the 5 main food groups 	what reflection is			predictions were correct.	
		 the proportions required for each 		Children will know:	Children will know:		Children will know:
		food group.	 some reflective materials. 			Children will know:	 similarities and differences
		 know water is also an important part 	the best reflective material for a	 ways of grouping rocks according 	 the main parts of flowering plants 	 whether materials are 	between similar organisms
		of a balanced diet.	purpose.	to their characteristics	the function of roots	magnetic or not	 how to group animals and
5				how to observe and compare	how to record findings and draw	how to make careful	explain the criteria that has
nosoa	OS			rocks, and put them into different	conclusions	observations	been used to sort them
00	res			categories, describing them using scientific vocabulary			the characteristics of different
		WALT: know that humans have different	WALT: use a mirror to reflect light and	WALT: plan, carry out and evaluate	WALT: identify and describe the functions	WALT: know how the magnetic poles	organisms WALT: classify animals into specific
		types of teeth and explain their functions	explain how mirrors works	experiments to compare rocks.	of leaves in flowering plants.	interact with one another.	groups according to their
		types of teeth and explain their functions	explain flow militars works	Activities: Children will start to learn about	or leaves in flowering plants.	interdet with one unother.	characteristics.
		Activities: Look at models of teeth or sets of	Activities: Recap features of reflective	erosion. They will also consider how	Activities: Children will start to learn how	Activities: Children will use magnets to	Activities:
		teeth. – Give chn mirrors and allow time for	materials and the characteristics of	different rocks may be tested to determine	plants make their own food using air and	investigate and record in a table how	Children will use classification keys to
		looking at and feeling their own teeth. Ask	reflective surfaces. Explain how mirrors are	how quickly they erode and whether they	sunlight. They will then either describe	the magnetic poles interact with one	identify and sort animals into groups.
		How many teeth have they got? How many	made and the image reflected is reversed.	are permeable. Following this, children will	parts of this process in their own words, or	another.	They may also study a range of sources
		new ones (permanent teeth)? How many	Mirror games - 1) children should use a	conduct practical erosion/permeability	plan and conduct an experiment to show		to find out about a particular group of
		baby teeth (milk teeth)? Why do they lose	mirror to write a short reversed message to	investigations.	the importance of light for plant growth.	Children will know:	animals.
		their milk teeth? Can they count their teeth?	their partner. They should then swap	Children will know:			Children will know:
		Discuss milk teeth. Make models of their	messages and try to decipher them with		Children will know:	that magnets have two poles.	that animals can be
		teeth using plasticine. Children will know:	their mirrors, 2) children will attempt to walk along a wavy line while looking only in	 what the terms 'erosion' and 'permeable' mean 	what plants need to produce their	that opposite poles attract and	categorised into broad groups
		Cilidren will know.	a mirror held overhead. They will find it	how to plan and carry out an	own food	the same poles repel.	according to their characteristics
		 the 4 different types of teeth 	tricky because of the apparent reversal of	experiment to compare rocks	 the function of leaves in flowering 		how to use a classification key
		 what each type of tooth does 	left and right when looking in the mirror	based on certain characteristics	plants		to help them identify which
			Children will know:	 how to evaluate their results and 	 some stages in the life cycle of 		group an animal belongs to
~	n			draw conclusions	flowering plants		a variety of animals that are
5	u o		 why mirrors are good reflectors. 				vertebrates, invertebrates,
nossa	ess		 how to use a mirror to reflect light 				mammals, amphibians,
			how mirrors work				insects, reptiles, fish and birds
		WALT: know that our diet and lifestyle can	WALT: recognise that light from the sun can	WALT: identify rocks and explain how their	WALT: explore the part that flowers play in the	WALT : set up a comparative test to test the strength of magnets.	WALT: use a classification key to identify
		impact the health of our teeth.	be dangerous and that there are ways to	properties make them used for particular purposes.	life cycle of flowering plants, including pollination, seed formation and seed dispersal.	Activities: Children will set up a	animals. Activities: Children will identify a range of
		Activities: In this session we are going to look	protect our eyes Activities: Children carry out an	Activities: Children will consider what sources	Activities: Children will start to identify the	comparative test to see if the strength of a	animals from different environments using
		at the importance of keeping our teeth healthy. Look at structure of a tooth Explain	Activities: Children carry out an investigation on the effects of UV light on	may help them find out about a rock's uses,	parts of a flower, and how pollination occurs.	magnet effects how it behaves with	classification keys. Optionally, they may
		we are going to investigate – Which liquid	coloured card to highlight the dangers of UV	then carry out research to help them describe	They will then continue to identify and label the	magnetic materials, considering if it will pull	create and test their own classification
		does the least damage to eggshells? Plan	light. Learn about the dangers of looking	the characteristics of rocks and their uses.	parts of a flower by drawing diagrams or dissecting flowers.	an object from further away.	keys. Children will know:
		investigation - Model setting up the class	directly at the sun and use of sunglasses.	Children will know:	Children will know:	Children will know:	Cilialeli Will Rilow.
		experiment.	Children will know:		the main parts of flowers		 how to use a classification key to
		Children will know:	what UV light is	 the uses of rocks and why they are 	the functions of the main parts of	 that stronger magnets will attract 	identify unfamiliar animals
D u	_	 the structure of a tooth 	about the dangers of UV light	suited to their purpose	flowers	objects from further away	how to use close observations to
0000	SSC	 how to make an investigation fair 	ways to protect our eyes from the	 how to organise the information they have found out 	ways in which flowering plants reproduce.	 magnets can attract objects through other materials. 	identify an animal's characteristics
-	Le	 how to make predictions 	sun.	nave round out	reproduce	unough other materials.	CHALACTERISTICS
					1	I	

			how to present the information they have found out clearly	how and where seeds are formed in flowering plants		how to create their own classification keys to help identify an animal
Lesson 5	WALT: know how to keep our teeth healthy Activities: Chn will have been looking at the jars throughout the week (without removing the tops). Tap the eggshells with a metal spoon, encourage chn to describe: smells like looks like feels like (for those brave enough, let them touch the eggs). Working in pairs and drawing on what they have learned, discuss why they think the effects of the liquids on the eggshells are different. Are there any surprises in the results? Can we make any links about the effect these liquids might have on tooth enamel? Children will know:	WALT: recognise that shadows are formed when the light from a light source is blocked by a solid object Activities: Investigate materials which would make good black out curtains to block out light from a baby's bedroom Children will know: how light travels. how to sort different materials according to whether they are opaque, transparent or translucent.	WALT: explore soil and how it is formed. Activities: Children will learn about soil: how it is formed and its uses. They will also study different types of soil. Following this, children will study and describe a variety of soil samples. Children will know: that soil is made up of rocks and decaying organic matter know that there are different types of soil that there are different layers of soil	WALT: explore some of the ways in which flowering plants disperse their seeds. Activities: Children will learn how the ovaries of flowering plants grow to form seeds, and how they may be dispersed in a variety of ways. They will then either continue to study in-depth some ways in which seeds are dispersed, or identify seeds found outside. Children will know: • why flowering plants need to disperse their seeds • some ways in which seeds are dispersed • how seeds are dispersed based on their appearance	WALT: investigate uses for magnets. Activities: Children will recap different magnetic materials and make generalisations about which materials are not magnetic. They will then find out about a variety of uses for magnets, including medical equipment, credit cards and recycling. There is also the chance to carry out their own research to find out about different uses for magnets. Children will know: some uses for magnets how to use a variety of sources to find out about the different uses of magnets how to present the information they have found in an appropriate	WALT: identify and classify a variety of British plants. Activities: Children will use Venn Diagrams and Carroll diagrams to sort plants according to some of their characteristics. Some children may choose their own ways of sorting and classifying plants, too. Children will know: a variety of plants according to their characteristics how to use a classification key to identify plants how to use other sources to help them identify a variety of local plants
Lesson 6		WALT: find patterns in the way that the size of shadows changes Activities: Children will be investigating what happens when you change the distance between the object and the light source Children will know: • how a shadow is formed. • how to plan and set up an investigation • why shadows change in size	WALT: explore what fossils are and how they are formed. Activities: Children will learn about how fossils are formed, then either describe this process in their own words or conduct a practical, 'fossil-making' activity. Children will know: that rocks move in a continuous cycle know what a fossil is how fossils are formed	WALT: know the structure of seeds and their importance as a food source. Activities: Children will learn about the structure of seeds and how plants grow from them. They will then either taste and compare seeds, or make seed cake bird feeders. Children will know: the parts of a seed and describe their functions why seeds are an important food source for animals	way WALT: suggest and design creative uses for magnets. Activities: Based on uses the children already know about they will design a use for magnets in the real world and present their invention in a dragon's den format. Children will know: how to use scientific concepts and ideas to solve problems. how to present their ideas and explain them using their scientific findings.	WALT: explore the human impact on habitats and environments. Activities: Children will consider ways in which animals living in environments are affected by human behaviour, then suggest ways in which we can help protect and sustain habitats. Children will know: how one change in a habitat can affect all the organisms within that environment positive ways in which humans can impact the environment negative ways in which humans can impact the environment
Knowledge	Children will know: The 4 teeth types are canines, molars, incisors and wisdom. Acidic food and drink can cause tooth decay. The 5 main food groups are fruits/vegetables, carbohydrates, protein, dairy, oils and spreads	Children will know: Light travels in straight lines as a wave and can be reflected off surfaces. Light from the sun can be dangerous and sun cream and sun glasses can protect us. Shadows are formed when a light source is blocked by a solid object.	Children will know: Rock types include igneous sedimentary and metamorphic (with explanations of how they are formed). Fossils are formed when and animal or plant dies and it is quickly buried in sediment Soil is made from rocks and organic matter.	Children will know: The main parts of a flowering plant are the roots, stem, leaves and flowers. (Children should define the function of these.) The main parts of a flower are the petals, stamen, carpe, style, stigma and pollen. Plants reproduce through pollination and seeds are dispersed by the wind, water, bursting or attached to animals.	Children will know: Magnetic forces can act at a distance. Opposite magnetic poles attract, the same poles repel one another. Magnetic materials are always made from metal but not all metals are magnetic.	Children will know: Construct and interpret a variety of food chains, identifying, produces, prey and predators. Living things can be grouped in a variety of ways and we can use classification keys to help us sort them. Environments can change and that this can sometimes pose dangers to specific habitats.