Science EYFS				
Nursery	Communication and language	*Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"		
	Physical Development	*Make healthy choices about food, drink, activity and toothbrushing.		
	Understanding The World	*Use all their senses in hands-on exploration of natural materials. *Explore collections of materials with similar and/or different properties. *Talk about what they see, using a wide vocabulary. *Begin to make sense of their own life-story and family's history. *Explore how things work. *Plant seeds and care for growing plants. *Understand the key features of the life cycle of a plant and an animal. *Begin to understand the need to respect and care for the natural environment and all living things. *Explore and talk about different forces they can feel. *Talk about the differences between materials and changes they notice.		
Reception	Communication and language	*Learn new vocabulary.		
Reception		*Ask questions to find out more and to check what has been said to them. *Articulate their ideas and thoughts in well-formed sentences. *Describe events in some detail. *Use talk to work out problems and organise thinking and activities. Explain how things work and why they might happen. *Use new vocabulary in different contexts.		
	Physical Development	*Know and talk about the different factors that support their overall health and wellbeing: -regular physical activity -healthy eating -toothbrushing -sensible amounts of 'screen time' -having a good sleep routine -being a safe pedestrian		
	Understanding The World	*Explore the natural world around them. *Describe what they see, hear and feel while they are outside. *Recognise some environments that are different to the one in which they live. *Understand the effect of changing seasons on the natural world around them.		
ELG	Communication and language- Listening, Attention and Understanding.			
	Personal, Social and Emotional Development- Managing Self	*Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.		
	Understanding The World- The Natural World	*Explore the natural world around them, making observations and drawing pictures of animals and plants. *Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. *Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.		

Sciend	cience Year 1					
Year	Term	Theme	Skills	Knowledge		
1	Autumn	Community:		To know a variety of common plants, including		
	1		that they can be answered in	garden plants, wild plants and trees, and those		
			different ways Use practical science	classified as deciduous and evergreen.		
		Science:	to raise questions about: how			
		Seasonal		To know the basic parts of the human body and		
		changes &	How things change and how they	say which part of the body is associated with		
			happenn e bren get de ette	each sense.		
		Autumn.	the four seasons. Autumn.			

	Plants. Humans.	Observe closely using simple equipment	
		Identify and classify phenomena Make comparisons between different objects, materials and living theory and bagin to sort them	
Autumn	Once Upon	living things and begin to sort them	To know simple physical properties of a variety o
2	a Time: Science: Seasonal changes & weather. Winter.	that they can be answered in different ways Use practical science to raise questions about: how things are similar and different /	everyday materials.
	Materials.	Gather simple secondary sources (e.g. internet, books, visitors) to find answers	
		Identify and classify phenomena Notice patterns and relationships (with help)	
Spring 1	Toys: Then and Now.		To know lots of everyday materials, including wood, plastic, glass, metal, water, and rock.
	Science: Seasonal changes & weather.	to raise questions about: how things are similar and different / How things change and how they happen. Observe changes across the four seasons. Spring.	To understand the difference between an object and the material from which it is made.
	Materials.	Identify and classify phenomena Make comparisons between different objects, materials and living things and begin to sort them. Carry out simple tests	
Spring 2	Our Garden. Science:		To know the basic structure of a variety of common plants including roots, stem, leaves an flowers.
	Plants. Edible Garden.	Record simple data (bar charts,	To know how seeds and bulbs grow into mature plants. To be able to describe how plants need water, light and the right temperature to grow and star healthy.
		Observe changes over different periods of time and talk about what has happened.	
		Notice patterns and relationships (with help). Record and communicate findings from relevant enquiries (including research) in a range of ways and begin to use simple scientific language (with help).	
Summer 1	On the Farm.		To know weather that is associated with the seasons, and how day length varies.
	Science: Seasonal	to raise questions about: how things are similar and different / How things change and how they	To know lots of common animals that are carnivores, herbivores and omnivores.
	changes & weather.	happen. Observe changes across the four seasons. Summer.	
	-	happen. Observe changes across	

		Make comparisons between different objects, materials and living things and begin to sort them	
Summer	A Seaside	Identify and classify phenomena	To know lots of common animals including fish,
2	Adventure	Make comparisons between different objects, materials and	amphibians, reptiles, birds and mammals
	Science: Animals Including Humans.		To be able to describe and compare lots of common animals (fish, amphibians, reptiles, birds and mammals, including pets) by how they look and how they move.

Scie	cience Year 2			
	Term		Skills	Knowledge
r 2	Autumn 1	People Who Help Us		To know the importance for humans of exercise, eating the right amounts of different types of food, and hygiene (being clean)
	Autumn 2	The Fire of London Science: Materials. Physics.	living things and begin to sort them Use practical science to begin to work with different scientific enquiries - comparative (fair) testing, pattern seeking Begin to make predictions Use their observations and ideas to suggest answers to questions Gather and record data to help in	To be able to identify and compare how different materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard are used because of their properties. To know that the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
		Who lives in the Secret Garden? Science: Plants. Edible Garden.biol ogy. Living Things & their habitat. Biology.	that they can be answered in different ways Use practical science to raise questions about: how things	To be able to 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. To be able to identify and name different plants and animals in their habitats, including micro- habitats.
	Spring 2	Exploring the United Kingdom Science:	Make comparisons between different objects, materials and living things and begin to sort them. Ask questions and use simple	To be able to explore and compare the differences between things that are living, dead, and things that have never been alive To know how animals get their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.
	Summer 1	Continents	Ask simple questions and recognise that they can be answered in different ways Use practical science	To know that animals, including humans, have offspring (babies) which grow into adults.

	Science: Animals Including Humans.	To understand the basic needs of animals, including humans, for survival (water, food and air)
Summer 2	Roald Dahl	To be able to describe how seeds and bulbs grow into mature plants. To know how plants need water, light and the right temperature to grow and stay healthy.

ence Year 3	3		
a Term	Theme	Skills	Knowledge
Autumn 1	Community: Where we Live Science: Light. Physics.	Ask relevant questions Set up simple practical enquiries, comparative and fair tests Make predictions Make systematic and careful observations and, where appropriate, take accurate	To know that you need light in order to see things and that dark is the absence of light To understand that light is reflected from surfaces To recognise that light from the sun can be dangerous and that there are ways to protect your eyes T recognise that shadows are formed when the light from a light source is blocked by a solid object
Autumn	Stone Age	tables Use results to draw simple conclusions Ask relevant questions and use	To be able to compare and group together
	to the Iron Age. Science: Rocks. Chemistry.	different types of scientific enquiry to answer them Suggest criteria for grouping, sorting and classifying information Gather, record, classify and present data in a variety of ways to help answer questions Set up simple practical enquiries- observation over time Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	different kinds of rocks on the basis of their appearance and simple physical properties To know, in simple terms, how fossils are formed when things that have lived are trapped within rock To recognise that soils are made from rocks and organic matter
Spring 1	The Human Body Science: Animals Including Humans. Biology.	Decide which type of enquiry to use to answer the questions they come up with	To know that humans and some other animals have skeletons and muscles for support, protection and movement To be able to 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

		to answer questions or to support their findings	
		Use scientific language to discuss ideas and communicate findings	
Spring 2	Ancient Civilisations		
Summer 1	Mountains of the World Science: Plants. Edible Garden Biology.	Make predictions Set up simple practical enquiries Suggest how to plan a fair test Make decisions about observations	To know the functions of different parts of flowering plants. To be able to explore the requirements of plants for life and growth and how they vary from plant to plant. To know the way in which water is transported within plants. To understand the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and dispersal
Summer 2	Who were the Romans?	Ask relevant questions Make predictions	To be able to compare how things move on different surfaces.
	Science: Forces and Magnets. Physics.	Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables Suggest criteria for grouping, sorting	To understand that some forces need contact between two objects, but magnetic forces can act at a distance. To know how magnets attract or repel each othe and attract some materials and not others.
		Draw simple conclusions from data or relevant enquiries (including research) to answer questions (with help)	To be able to compare and group together a variety of everyday materials based on whether they are attracted to a magnet and identify som magnetic materials. To be able to describe magnets as having two poles.
			To be able to predict whether two magnets will attract or repel each other, depending on which poles are facing.

Scienc	e Year 4			
<i>fear</i>	Term	Theme	Skills	Knowledge
4	1	The Tower		To be able to identify common appliances that run on electricity
		Science: Electricity.	questions about the world around them	To be able to construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
			labelled diagrams, bar charts and	To be able to 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
			measurements by using notes,	To know that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
				To be able to recognise some common conductors and insulators, and associate metals with being good conductors
			Draw simple conclusions from data or relevant enquiries (including	

		research) to answer questions (with	
		help)	
		Find ways of making improvements	.
Autumn	Rainforests		To be able to recognise that living things can be grouped in a variety of ways
Z	Science:	up with	grouped in a valiety of ways
			To be able to explore and use classification keys
	& their	and classifying information	to help group, identify and name a variety of
	Habitats.	Sort information into criteria that	living things in their local and wider environment
	Biology.	they have decided	
			To recognise that environments can change and
		their questions cannot be answered	that this can sometimes pose a danger to living
		practically	inings
		Collect data from observations and	
		measurements by using notes,	
		tables and standard units	
Spring 1	Anglo	Ask relevant questions	To be able to identify how sounds are made,
			associating some of them with something
	Scots.	to answer the questions they come up with – pattern seeking	vibrating
	Science:	Make predictions	To know that vibrations from sounds travel throug
	Sound.		a medium to the ear
	physics	Make systematic and careful	
		observations and, where	To be able to find patterns between the pitch of
			sound and features of the object that produced
		measurements using standard units,	it .
		using a range of equipment	To be able to find patterns between the volume
		including thermometers and data loggers	of a sound and the strength of the vibrations that
		Report on findings from enquiries,	produced it
		including oral and written	
		explanations, displays or	To know that sounds get fainter as the distance
		presentations of results and	from the sound source increases
		conclusions	
		Find ways of making improvements	
		Use scientific language to discuss ideas and communicate findings	
Spring 2	Who were		
-13 -	the Vikings?		
Summer	Explorers	Ask relevant questions	To be able to identify the different types of teeth
1			in humans and their simple functions
	Science:	to answer the questions they come	
	Animals	up with	To know the simple functions of the basic parts o
		Set up simple practical enquiries, comparative and fair tests	the digestive system in humans
			To be able to construct and interpret a variety of
		Make predictions	
		Make predictions	
		Make predictions Collect data from observations and measurements by using notes, tables and standard units.	food chains, identifying producers, predators and
		Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries ,	food chains, identifying producers, predators and
		Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written	food chains, identifying producers, predators and
		Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or	food chains, identifying producers, predators and
		Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and	food chains, identifying producers, predators and
		Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.	food chains, identifying producers, predators and prey
		Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting	food chains, identifying producers, predators and prey
Summer		Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.	
	Biology Extreme	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting	food chains, identifying producers, predators and prey To be able to compare and group materials together, according to whether they are solids,
	Biology Extreme Earth.	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions	food chains, identifying producers, predators and prey To be able to compare and group materials
	Biology Extreme Earth. Science:	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting and classifying information.	food chains, identifying producers, predators and prey To be able to compare and group materials together, according to whether they are solids, liquids or gases
	Biology Extreme Earth. Science: States of	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting and classifying information. Make systematic and careful	food chains, identifying producers, predators and prey To be able to compare and group materials together, according to whether they are solids, liquids or gases To know that some materials change state when
Summer 2	Biology Extreme Earth. Science: States of Matter.	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting and classifying information. Make systematic and careful observations and, where	food chains, identifying producers, predators and prey To be able to compare and group materials together, according to whether they are solids, liquids or gases To know that some materials change state when they are heated or cooled, and measure or
	Biology Extreme Earth. Science: States of Matter. Chemistry.	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting and classifying information. Make systematic and careful observations and, where appropriate, take accurate	food chains, identifying producers, predators and prey To be able to compare and group materials together, according to whether they are solids, liquids or gases To know that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens
	Biology Extreme Earth. Science: States of Matter. Chemistry.	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting and classifying information. Make systematic and careful observations and, where appropriate, take accurate measurements using standard units,	food chains, identifying producers, predators and prey To be able to compare and group materials together, according to whether they are solids, liquids or gases To know that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens
	Biology Extreme Earth. Science: States of Matter. Chemistry.	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting and classifying information. Make systematic and careful observations and, where appropriate, take accurate	food chains, identifying producers, predators and prey To be able to compare and group materials together, according to whether they are solids, liquids or gases To know that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens
	Biology Extreme Earth. Science: States of Matter. Chemistry.	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting and classifying information. Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment	tood chains, identifying producers, predators and prey To be able to compare and group materials together, according to whether they are solids, liquids or gases To know that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius To be able to identify the part played by evaporation and condensation in the water cyc
	Biology Extreme Earth. Science: States of Matter. Chemistry.	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting and classifying information. Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment including thermometers and data loggers	To be able to compare and group materials together, according to whether they are solids, liquids or gases To know that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius To be able to identify the part played by evaporation and condensation in the water cyc and associate the rate of evaporation with
	Biology Extreme Earth. Science: States of Matter. Chemistry.	Make predictions Collect data from observations and measurements by using notes, tables and standard units. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Suggest criteria for grouping, sorting and classifying information. Ask questions Suggest criteria for grouping, sorting and classifying information. Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment including thermometers and data	To be able to compare and group materials together, according to whether they are solids, liquids or gases To know that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius To be able to identify the part played by evaporation and condensation in the water cyc

labelled diagrams, bar charts and tables.	
Draw simple conclusions from data or relevant enquiries (including research) to answer questions (with help). Recognise when secondary sources of information should be used when their questions cannot be answered practically.	

Scienc	e Year 5			
	-	Theme		Knowledge
	Autumn 1	Community: Festival of Britain Science:	Ask meaningful scientific questions. Use and then develop scientific keys	To know the differences in the life cycles of a mammal, an amphibian, an insect and a bird To know the life processes of reproduction in some plants and animals
	Autumn 2	Ancient Egyptians	ask meaningful science questions Research	To be able to describe the changes as humans develop to old age.
		Science: Animals Including Humans (biology)	Use relevant scientific language and illustrations to discuss, communicate and justify scientific ideas Report and present findings from enquiries, including conclusions, causal relationships and explanations of, and degrees of trusts in results, in oral and written forms	
	- 0	and Change of Materials	Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Make predictions and hypotheses. Make decisions about what observations to make and decisions about how to record data and information. Use results from relevant enquiries	To be able to compare and group together everyday materials based on their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets To understand that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution To use knowledge of solids, liquids, and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.

		communicate and justify scientific ideas	
Spring 2	Greeks Science:	Use their scientific experiences to select and plan the most appropriate line of enquiry to answer scientific questions	To be able to give reasons, based on evidence from comparative and fair tests, for the particula uses of everyday materials, including metals, wood and plastic
	of	Report and present findings from enquiries, including conclusions, causal relationships and	To know that dissolving, mixing and changes of state are reversible changes
		explanations of, and degrees of trusts in results, in oral and written forms such as displays and other presentations	To know that some changes result in the formatic of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid c bicarbonate of soda
		Use test results to make predictions to set up further comparative and fair tests	
		Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	
		Make decisions about what observations to make	
		Make decisions about what measurements to make and how long to make them for and whether to repeat them	
Summer	Space		To be able to describe the movement of the
1	Explorers	Talk about how scientific ideas have	Earth, and other planets, relative to the Sun in the
	. ·	developed over time	solar system
	Science:	Recognise which secondary sources	To be able to describe the movement of the
	Earth and Space	and begin to separate opinion from	
	(physics)	fact	
		Report and present findings from enquiries, including conclusions, causal relationships and	To be able to describe the Sun, Earth and Moon as approximately spherical bodies
		explanations of, and degrees of trusts in results, in oral and written	To use the idea of the Earth's rotation to explain day and night and the apparent movement of
		forms such as displays and other presentations Identify scientific evidence that had	the sun across the sky
		been used to support or refute ideas or arguments Talk about how scientific ideas have	
		developed over time	
-		Ask meaningful questions	To know that unsupported objects fall towards th
2		Plan different types of scientific enquiries to answer questions,	Earth because of the force of gravity acting between the Earth and the falling object
		including recognising and	between the Lann and the railing object
		controlling variables where	To be able to identify the effects of air resistance
	(physics)	necessary Talk about how scientific ideas have	water resistance and friction that act between moving surfaces
		developed over time. Record data and results of	To know that some mechanisms, including levers
		increasing complexity using scientific diagrams and labels,	pulleys and gears, allow a smaller force to have greater effect
		classification keys, tables, scatter	
		graphs, bar and line graphs Report and present findings from	
			1
		enquiries, including conclusions,	
		enquiries, including conclusions, causal relationships and	
		enquiries, including conclusions, causal relationships and explanations of, and degrees of	
		enquiries, including conclusions, causal relationships and	

			Use test results to make predictions to set up further comparative and fair tests	
r 6				
-	e Year 6			
		Theme	Skills	Knowledge
	1	Community: Political Poplar	Ask meaningful questions Identify scientific evidence that had been used to support or refute ideas	To be able to identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
		Science: Animals Including Humans. Biology.	use relevant scientific language and illustrations to discuss, communicate and justify scientific	To recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function To know the ways in which nutrients and water are transported within animals, including humans
		-	ideas	
	2	Early Islamic Civilisation Science: Light. Physics.	Make predictions and hypotheses Make decisions about what observations to make. Make decisions about what measurements to make and how long to make them for and whether to repeat them.	To know that light appears to travel in straight lines To be able to use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye
			Make decisions about how to record data and information	To be able to 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
			Take measurements using a range of scientific equipment with increasing accuracy and precision, taking repeated readings where appropriate	To be able to use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
			Use results from relevant enquiries (including research) to write conclusions and explanations Recognise which secondary sources will be most useful to research ideas and begin to separate opinion from fact	
	1	WWII Science: Electricity.	Use their scientific experiences to select and plan the most appropriate line of enquiry to answer scientific questions	To be able to associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
		Physics.	Recognise when and how to set up fair tests and explain which variables need to be controlled and why Record data and results of	To be able to 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
			increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	To be able to use recognised symbols when representing a simple circuit in a diagram
	2	Rivers		
	1	Immigration Science:	Use their scientific experiences to raise different kinds of questions Report and present findings from enquiries, including conclusions, causal relationships and	To know that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago
			explanations of, and degrees of trusts in results, in oral and written forms such as displays and other presentations	To know that living things produce offspring of th same kind, but normally offspring vary and are not identical to their parents
			Use relevant scientific language and illustrations to discuss, communicate and justify scientific ideas Talk about how scientific ideas have developed over time	To be able to identify how animals and plants ar adapted to suit their environment in different ways and that adaptation may lead to evolutior
		Refugees and Immigration	Use their scientific experiences to select and plan the most	To know how living things are classified into broa groups according to common observable

Science: Living things	appropriate line of enquiry to answer scientific questions	characteristics and based on similarities and differences, including micro-organisms, plants and animals
and their Habitats. Biology.	Use and then develop scientific keys and information records to identify, classify and describe living things and materials, and identify patterns that might be found in the natural environment Research	To be able to give reasons for classifying plants and animals based on specific characteristics
	Make decisions about how to record data and information Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	

Vocabulary/ Spoken Language

The national curriculum for science reflects the importance of spoken language in pupils' development across the whole curriculum – cognitively, socially and linguistically. The quality and variety of language that pupils hear and speak are key factors in developing their scientific vocabulary and articulating scientific concepts clearly and precisely. They must be assisted in making their thinking clear, both to themselves and others, and teachers should ensure that pupils build secure foundations by using discussion to probe and remedy their misconceptions.