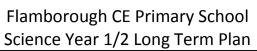




Year 1/2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Science		pupils should be taught to use the fol		ls, processes and skills throu	ugh the teaching of the progra	mme of study content:
Cycle A		uestions and recognising that they can	be answered in different ways			
2020-2021		y, using simple equipment				
	 performing simple identifying and of 					
	lucitinying and t	rvations and ideas to suggest answers	to questions			
	_	ecording data to help in answering que	·			
	- gathering and re	cording data to help in answering que	Everyday material (1) Uses			All living things and
	Animals i	including humans (1+2)	of everyday materials (2)	Seasons (1)	Plants (1 and 2)	their Habitats (2)
	identify and nan	ne a variety of common animals	distinguish between an	observe changes	identify and name a	explore and compare
	•	bians, reptiles, birds and mammals	object and the material from	across the four seasons	variety of common wild	the differences between
		ne a variety of common animals that	which it is made	• observe and	and garden plants,	things that are living, dead,
	are carnivores, herbi	•	identify and name a	describe weather	including deciduous and	and things that have never
		mpare the structure of a variety of	variety of everyday materials,	associated with the	evergreen trees	been alive
		h, amphibians, reptiles, birds and	including wood, plastic, glass,	seasons and how day	 identify and describe 	identify that most
	mammals, including		metal, water, and rock	length varies.	the basic structure of a	living things live in habitats
	identify, name, or	draw and label the basic parts of the	 describe the simple 		variety of common	to which they are suited
	human body and say	which part of the body is associated	physical properties of a		flowering plants, including	and describe how different
	with each sense.		variety of everyday materials		trees.	habitats provide for the
	notice that anim	nals, including humans, have	compare and group		 observe and describe 	basic needs of different
	offspring which grow		together a variety of		how seeds and bulbs grow	kinds of animals and
		nd describe the basic needs of	everyday materials on the		into mature plants	plants, and how they
	_	mans, for survival (water, food and	basis of their simple physical		 find out and describe 	depend on each other
	air)		properties.		how plants need water,	 identify and name a
	·	portance for humans of exercise,	identify and compare		light and a suitable	variety of plants and
		unts of different types of food, and	the suitability of a variety of		temperature to grow and	animals in their habitats,
	hygiene.		everyday materials, including		stay healthy.	including micro-habitats describe how animals
			wood, metal, plastic, glass,			obtain their food from
			brick, rock, paper and cardboard for particular uses			plants and other animals,
			 find out how the shapes 			using the idea of a simple
			of solid objects made from			food chain, and identify
			some materials can be			and name different
			changed by squashing,			sources of food.
			bending, twisting and			
			stretching.			





Year 1/2	Autumn 1 Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Science Cycle B 2021-2022	During years 1 and 2, pupils should be taught to asking simple questions and recognising th observing closely, using simple equipment performing simple tests identifying and classifying using their observations and ideas to sugg gathering and recording data to help in an	nat they can be answered in difference the control of the control		ugh the teaching of the progra	mme of study content:
	Animals including humans (1+2	Seasons (1)	Everyday material (1)Uses of everyday materials (2)	Plants (1 and 2)	All living things and their Habitats (2)
	 identify and name a variety of common animals including fish, amphibians, reptiles, bird and mammals identify and name a variety of common animals that are carnivores, herbivores and omnivores describe and compare the structure of variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) identify, name, draw and label the ball parts of the human body and say which part of body is associated with each sense. notice that animals, including human have offspring which grow into adults find out about and describe the basic needs of animals, including humans, for survival (water, food and air) describe the importance for humans exercise, eating the right amounts of different types of food, and hygiene. 	changes across the four seasons on observe and describe weather associated with the seasons and how day length varies. sic the	 distinguish between an object and the material from which it is made identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock describe the simple physical properties of a variety of everyday materials compare and group together a variety of everyday materials on the basis of their simple physical properties. identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. 	 identify and name a variety of common wild and garden plants, including deciduous and evergreen trees identify and describe the basic structure of a variety of common flowering plants, including trees. observe and describe how seeds and bulbs grow into mature plants find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. 	 explore and compare the differences between things that are living, dead, and things that have never been alive 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 identify and name a variety of plants and animals in their habitats 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.



NC POS identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals identify and name a variety of common animals that are carnivores, herbivores and omnivores describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) describe that animals, including humans body and say which part of the body is associated with each sense. In notice that animals, including humans, have offspring which grow into adults describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Knowledge and Skills Key learning Animals vary in many ways having different structures e.g. wings, tails, ears etc. They also have different skin coverings e.g. scales, feathers, hair. These key features can be used to identify them. Animals eat certain things - some eat other animals, some eat plants, some eat both plants and animals.	Year 1/2	Autumn
No. Pos		
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Year 1/2	Autumn		
Cycle A – 2020-2021	Animals including humans (Yrs 1+2)		
	Classify animals according to what they eat.		
	Make first-hand close observations of parts of the body e.g. hands, eyes.		
	Compare two people.		
	Take measurements of parts of their body.		
	Compare parts of their own body.		
	Look for patterns between people e.g. Do people with big hands have big feet?		
	Classify people according to their features.		
	• Investigate human senses e.g. Which part of my body is good for feeling, which is not? Which food/flavours can I identify by taste? Which smells can I match?		
	Ask people questions and use secondary sources to find out about the life cycles of some animals.		
	Observe animals growing over a period of time e.g. chicks, caterpillars, a baby.		
	Ask questions of a parent about how they look after their baby.		
	Ask pet owners questions about how they look after their pet.		
	Explore the effect of exercise on their bodies.		
	Classify food in a range of ways, including using the Eatwell Guide.		
	Investigate washing hands, using glitter gel.		
	Possible evidence		
	Can sort and group animals using similarities and differences		
	Can use simple charts etc. to identify unknown animals		
	Can create a drawing of an imaginary animal labelling its key features		
	• Can use secondary resources to find out what animals eat, including talking to experts e.g. pet owners, zookeepers etc.		
	Can use first-hand close observations to make detailed drawings		
	• Can name body parts correctly when talking about measurements and comparisons e.g. "My arm is x straws long." "My arm is x straws long and my leg is y straws long.		
	My leg is longer than my arm." "We both have hands, but his are bigger than mine." "These people have brown eyes and these have blue."		
	• Can talk about their findings from investigations using appropriate vocabulary e.g. "My fingers are much better at feeling than my toes" "We found that the crisps all		
	taste the same."		
	• Can describe, including using diagrams, the life cycle of some animals, including humans, and their growth to adults e.g. by creating a life cycle book for a younger child		
	Can measure/observe how animals, including humans, grow.		
	Show what they know about looking after a baby/animal by creating a parenting/pet owners' guide		
	Explain how development and health might be affected by differing conditions and needs being met/not met		
Vocabulary	Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves		
	Names of animals experienced first-hand from each vertebrate group		
	Parts of the body including those linked to PSHE teaching (see joint document produced by the ASE and PSHE Association)		
	Senses – touch, see, smell, taste, hear, fingers (skin), eyes, nose, ear and tongue		
	N.B.		
	The children need to be able to name and identify a range of animals in each group e.g. name specific birds and fish. They do not need to use the terms mammal, reptiles		



Year 1/2	Autumn	
Cycle A – 2020-2021	Animals including humans (Yrs 1+2)	
	etc. or know the key characteristics of each, although they will probably be able to identify birds and fish, based on their characteristics.	
	The children also do not need to use the words carnivore, herbivore and omnivore. If they do, ensure that they understand that carnivores eat other animals, not just meat.	
	Although we often use our fingers and hands to feel objects, the children should understand that we can feel with many parts of our body.	
	Offspring, reproduction, growth, child, young/old stages (examples - chick/hen, baby/child/adult, caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (examples – meat, fish, vegetables, bread, rice, pasta)	
Enrichment		



Year 1/2	Spring 1
Cycle A – 2020-2021	Everyday material (1)Uses of everyday materials (2)
NC POS	 distinguish between an object and the material from which it is made
	 identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
	 describe the simple physical properties of a variety of everyday materials
	 compare and group together a variety of everyday materials on the basis of their simple physical properties.
	• identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
	• find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
Knowledge and Skills	Key learning
	All objects are made of one or more materials. Some objects can be made from different materials e.g. plastic, metal or wooden spoons.
	Materials can be described by their properties e.g. shiny, stretchy, rough etc. Some materials e.g. plastic can be in different forms with very different properties.
	All objects are made of one or more materials that are chosen specifically because they have suitable properties for the task. For example, a water bottle is made of plastic
	because it is transparent allowing you to see the drink inside and waterproof so that it holds the water. When choosing what to make an object from, the properties needed
	are compared with the properties of the possible materials, identified through simple tests and classifying activities. A material can be suitable for different purposes and an
	object can be made of different materials.
	Objects made of some materials can be changed in shape by bending, stretching, squashing and twisting. For example, clay can be shaped by squashing, stretching, rolling,
	pressing etc. This can be a property of the material or depend on how the material has been processed e.g. thickness.
	Possible evidence
	Can label a picture or diagram of an object made from different materials
	Can describe the properties of different materials
	Can name an object, say what material it is made from, identify its properties and make a link between the properties and a particular use
	Can label a picture or diagram of an object made from different materials
	For a given object can identify what properties a suitable material needs to have
	Whilst changing the shape of an object can describe the action used
	• Can use the words flexible and/or stretchy to describe materials that can be changed in shape and stiff and/or rigid for those that cannot
	Can recognise that a material may come in different forms which have different properties
	Working Scientifically Activities
	Classify objects made of one material in different ways e.g. a group of object made of metal.
	• Classify in different ways one type of object made from a range of materials e.g. a collection of spoons made of different materials.
	Classify materials based on their properties.
	• Test the properties of objects e.g. absorbency of cloths, strength of party hats made of different papers, stiffness of paper plates, waterproofness of shelters.
	Classify materials.
	Make suggestions about alternative materials for a purpose that are both suitable and unsuitable
	• Test the properties of materials for particular uses e.g. compare the stretchiness of fabrics to select the most appropriate for Elastigirl's costume, test materials for waterproofness to select the most appropriate for a rain hat
	Possible evidence
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Year 1/2	Spring 1	
Cycle A – 2020-2021	Everyday material (1)Uses of everyday materials (2)	
	Can sort objects and materials using a range of properties	
	Can choose an appropriate method for testing an object for a particular property	
	• Can use their test evidence to answer the questions about properties e.g. "Which cloth is the most absorbent?"	
	Can sort materials using a range of properties	
	Can explain using the key properties why a material is suitable or not suitable for a purpose	
	Can begin to choose an appropriate method for testing a material for a particular property	
	• Can use their test evidence to select appropriate material for a purpose e.g. Which material is the best for a rain hat?	
Vocabulary	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see-through, not see-through	
	Names of materials – wood, metal, plastic, glass, brick, rock, paper, cardboard	
	Properties of materials – as for Year 1 plus opaque, transparent and translucent, reflective, non-reflective, flexible, rigid	
	Shape, push/pushing, pull/puling, twist/twisting, squash/squashing, bend/bending, stretch/stretching	
Enrichment		



Year 1/2	Spring 2
Cycle A – 2020-2021	Seasonal Changes (1)
NC POS	 observe changes across the four seasons
	 observe and describe weather associated with the seasons and how day length varies.
Knowledge and Skills	Key learning
	In the UK, the day length is longest at mid-summer (about 16 hours) and gets shorter each day until mid-winter (about 8 hours) before getting longer again.
	The weather also changes with the seasons. In the UK, it is usually colder and rainier in winter, and hotter and dryer in the summer. The change in weather causes many
	other changes. Some examples are: numbers of minibeasts found outside; seed and plant growth; leaves on trees; and type of clothes worn by people.
	Possible evidence
	Can name the four seasons and identify when in the year they occur
	Can describe weather in different seasons over a year
	Can describe days as being longer (in time) in the summer and shorter in the winter
	Can describe other features that change through the year
	Working Scientifically Activities
	Collect information about the weather regularly throughout the year.
	 Present this information in tables and charts to compare the weather across the seasons.
	• Collect information, regularly throughout the year, of features that change with the seasons e.g. plants, animals, humans.
	Present this information in different ways to compare the seasons.
	Gather data about day length regularly throughout the year and present this to compare the seasons.
	Possible evidence
	Use the evidence gathered to describe the general types of weather and changes in day length over the seasons.
	• Use their evidence to describe some other features of their surroundings, e.g. themselves, animals, plants that change over the seasons
	Demonstrate their knowledge in different ways e.g. making a weather forecast video, writing seasonal poetry, creating seasonal artwork
Vocabulary	Weather (sunny, rainy, windy, snowy etc.)
•	Seasons (winter, summer, spring, autumn)
	Sun, sunrise, sunset, day length
Enrichment	



	Summer 1
Cycle A – 2020-2021	Plants (1+2)
NC POS	• identify and name a variety of common wild and garden plants, including deciduous and evergreen trees
	 identify and describe the basic structure of a variety of common flowering plants, including trees.
	observe and describe how seeds and bulbs grow into mature plants
	• find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
Knowledge and Skills	Key learning Crowing leastly, there will be a yest array of plants which all have specific names. These can be identified by leaking at the key sharesteristics of the plant. Plants have
	Growing locally, there will be a vast array of plants which all have specific names. These can be identified by looking at the key characteristics of the plant. Plants have common parts, but they vary between the different types of plants. Some trees keep their leaves all year while other trees drop their leaves during autumn and grow them again during spring.
	Plants may grow from either seeds or bulbs. These then germinate and grow into seedlings which then continue to grow into mature plants. These mature plants may have flowers which then develop into seeds, berries, fruits etc. Seeds and bulbs need to be planted outside at particular times of year and they will germinate and grow at different rates. Some plants are better suited to growing in full sun and some grow better in partial or full shade. Plants also need different amounts of water and space to grow well and stay healthy.
	Possible evidence
	Can name trees and other plants that they see regularly
	Can describe some of the key features of these trees and plants e.g. the shape of the leaves, the colour of the flower/blossom
	Can point out trees which lost their leaves and those that kept them the whole year
	Can point to and name the parts of a plant, recognising that they are not always the same e.g. leaves and stems may not be green
	Can describe how plants that they have grown from seeds and bulbs have developed over time Can identify plants that grew well in different conditions Working Scientifically Activities
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	Can identify plants that grew well in different conditions Working Scientifically Activities Make close observations of leaves, seeds, flowers etc.
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	Can identify plants that grew well in different conditions Working Scientifically Activities Make close observations of leaves, seeds, flowers etc. Compare two leaves, seeds, flowers etc. Classify leaves, seeds, flowers etc. using a range of characteristics. Identify plants by matching them to named images. Make observations of how plants change over a period of time. When further afield, spot plants that are the same as those in the local area studied regularly, describing the key features that helped them. Make close observations of seeds and bulbs. Classify seeds and bulbs. Research and plan when and how to plant a range of seeds and bulbs. Look after the plants as they grow – weeding, thinning, watering etc. Make close observations and measurements of their plants growing from seeds and bulbs. Make comparisons between plants as they grow.



Year 1/2	Summer 1
Cycle A – 2020-2021	Plants (1+2)
	Can collect information on features that change during the year
	Can use photographs to talk about how plants change over time
	Can spot similarities and difference between bulbs and seeds
	Can nurture seeds and bulbs into mature plants identifying the different requirements of different plants
Vocabulary	Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud
	Names of trees in the local area
	Names of garden and wild flowering plants in the local area
	As for Year 1 plus light, shade, sun, warm, cool, water, grow, healthy
Enrichment	



Year 1/2	Summer 2
Cycle A - 2020-2021	Living Things and their Habitats (2)
NC POS	 explore and compare the differences between things that are living, dead, and things that have never been alive
	• 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
	 identify and name a variety of plants and animals in their habitats, including micro-habitats
	• describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.
Knowledge and Skills	Key learning
	All objects are either living, dead or have never been alive. Living things are plants (including seeds) and animals. Dead things include dead animals and plants and parts of
	plants and animals that are no longer attached e.g. leaves and twigs, shells, fur, hair and feathers (This is a simplification, but appropriate for Year 2 children.)
	An object made of wood is classed as dead. Objects made of rock, metal and plastic have never been alive (again ignoring that plastics are made of fossil fuels).
	Animals and plants live in a habitat to which they are suited, which means that animals have suitable features that help them move and find food and plants have suitable
	features that help them to grow well. The habitat provides the basic needs of the animals and plants – shelter, food and water.
	Within a habitat there are different micro-habitats e.g. in a woodland – in the leaf litter, on the bark of trees, on the leaves. These micro-habitats have different conditions
	e.g. light or dark, damp or dry. These conditions affect which plants and animals live there. The plants and animals in a habitat depend on each other for food and shelter
	etc. The way that animals obtain their food from plants and other animals can be shown in a food chain.
	Possible evidence
	Can find a range of items outside that are living, dead and never lived
	Can name a range of animals and plants that live in a habitat and micro-habitats that they have studied
	Can talk about how the features of these animals and plants make them suitable to the habitat
	Can talk about what the animals eat in a habitat and how the plants provide shelter for them
	Can construct a food chain that starts with a plant and has the arrows pointing in the correct direction
	Working Scientifically Activities
	Explore the outside environment regularly to find objects that are living, dead and have never lived.
	Classify objects found in the local environment.
	Observe animals and plants carefully, drawing and labelling diagrams.
	Create simple food chains for a familiar local habitat from first-hand observation and research.
	Create simple food chains from information given e.g. in picture books (Gruffalo etc.).
	Possible evidence
	Can sort into living, dead and never lived
	Can give key features that mean the animal or plant is suited to its micro-habitat
	Using a food chain can explain what animals eat
	• Can explain in simple terms why an animal or plant is suited to a habitat e.g. the caterpillar cannot live under the soil like a worm as it needs fresh leaves to eat; the
	seaweed we found on the beach cannot live in our pond because it is not salty
/ocabulary	Living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed
•	Names of local habitats e.g. pond, woodland etc.
	Names of micro-habitats e.g. under logs, in bushes etc.
Enrichment	



Year 1/2	Autumn
Cycle B - 2021-2022	Animals including humans (Yrs 1+2)
NC POS	 identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals
	 identify and name a variety of common animals that are carnivores, herbivores and omnivores
	 describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)
	identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.
	 notice that animals, including humans, have offspring which grow into adults
	 find out about and describe the basic needs of animals, including humans, for survival (water, food and air)
	 describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.
Knowledge and Skills	Key learning
	Animals vary in many ways having different structures e.g. wings, tails, ears etc. They also have different skin coverings e.g. scales, feathers, hair. These key features can be
	used to identify them.
	Animals eat certain things - some eat other animals, some eat plants, some eat both plants and animals.
	Humans have key parts in common, but these vary from person to person. Humans (and other animals) find out about the world using their senses. Humans have five senses
	– sight, touch, taste, hearing and smelling. These senses are linked to particular parts of the body.
	Animals, including humans, have offspring which grow into adults. In humans and some animals, these offspring will be young, such as babies or kittens, that grow into adults. In other animals, such as chickens or insects, there may be eggs laid that hatch to young or other stages which then grow to adults. The young of some animals do
	not look like their parents e.g. tadpoles.
	All animals, including humans, have the basic needs of feeding, drinking and breathing that must be satisfied in order to survive. To grow into healthy adults, they also need
	the right amounts and types of food and exercise.
	Good hygiene is also important in preventing infections and illnesses.
	Possible evidence
	 Can name a range of animals which includes animals from each of the vertebrate groups
	Can describe the key features of these named animals
	Can label key features on a picture/diagram
	Can write descriptively about an animal
	Can write a What am I? riddle about an animal
	Can describe what a range of animals eat
	Can play and lead 'Simon says'
	During PE lessons, can follow instructions involving parts of the body
	Can describe how animals, including humans, have offspring which grow into adults, using the appropriate names for the stages
	Can state the basic needs of animals, including humans, for survival
	Can state the importance for humans of exercise, eating the right amounts of different types of food, and hygiene
	Can name foods in each section of the Eatwell Guide
	Working Scientifically Activities



Year 1/2	Autumn
Cycle B - 2021-2022	Animals including humans (Yrs 1+2)
	Make first-hand, close observations of animals from each of the groups.
	Compare two animals from the same or different groups.
	Classify animals using a range of features.
	Identify animals by matching them to named images.
	Classify animals according to what they eat.
	Make first-hand close observations of parts of the body e.g. hands, eyes.
	Compare two people.
	Take measurements of parts of their body.
	Compare parts of their own body.
	• Look for patterns between people e.g. Do people with big hands have big feet?
	Classify people according to their features.
	• Investigate human senses e.g. Which part of my body is good for feeling, which is not? Which food/flavours can I identify by taste? Which smells can I match?
	Ask people questions and use secondary sources to find out about the life cycles of some animals.
	Observe animals growing over a period of time e.g. chicks, caterpillars, a baby.
	Ask questions of a parent about how they look after their baby.
	Ask pet owners questions about how they look after their pet.
	Explore the effect of exercise on their bodies.
	 Classify food in a range of ways, including using the Eatwell Guide.
	 Investigate washing hands, using glitter gel.
	Possible evidence
	Can sort and group animals using similarities and differences
	Can use simple charts etc. to identify unknown animals
	Can create a drawing of an imaginary animal labelling its key features
	 Can use secondary resources to find out what animals eat, including talking to experts e.g. pet owners, zookeepers etc.
	 Can use first-hand close observations to make detailed drawings
	 Can name body parts correctly when talking about measurements and comparisons e.g. "My arm is x straws long." "My arm is x straws long and my leg is y straws long
	My leg is longer than my arm." "We both have hands, but his are bigger than mine." "These people have brown eyes and these have blue."
	• Can talk about their findings from investigations using appropriate vocabulary e.g. "My fingers are much better at feeling than my toes" "We found that the crisps all
	taste the same."
	• Can describe, including using diagrams, the life cycle of some animals, including humans, and their growth to adults e.g. by creating a life cycle book for a younger child
	 Can measure/observe how animals, including humans, grow.
	 Show what they know about looking after a baby/animal by creating a parenting/pet owners' guide
	 Explain how development and health might be affected by differing conditions and needs being met/not met
Vocabulary	Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves
t ocasaiai y	Names of animals experienced first-hand from each vertebrate group
	Parts of the body including those linked to PSHE teaching (see joint document produced by the ASE and PSHE Association)



Year 1/2	Autumn
Cycle B - 2021-2022	Animals including humans (Yrs 1+2)
	Senses – touch, see, smell, taste, hear, fingers (skin), eyes, nose, ear and tongue
	N.B. The children need to be able to name and identify a range of animals in each group e.g. name specific birds and fish. They do not need to use the terms mammal, reptiles etc. or know the key characteristics of each, although they will probably be able to identify birds and fish, based on their characteristics. The children also do not need to use the words carnivore, herbivore and omnivore. If they do, ensure that they understand that carnivores eat other animals, not just meat. Although we often use our fingers and hands to feel objects, the children should understand that we can feel with many parts of our body.
	Offspring, reproduction, growth, child, young/old stages (examples - chick/hen, baby/child/adult, caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (examples – meat, fish, vegetables, bread, rice, pasta)
Enrichment	



Year 1/2	Spring 1
Cycle B – 2020-2021	Seasonal Changes (1)
NC POS	 observe changes across the four seasons
	 observe and describe weather associated with the seasons and how day length varies.
Knowledge and Skills	Key learning
	In the UK, the day length is longest at mid-summer (about 16 hours) and gets shorter each day until mid-winter (about 8 hours) before getting longer again.
	The weather also changes with the seasons. In the UK, it is usually colder and rainier in winter, and hotter and dryer in the summer. The change in weather causes many
	other changes. Some examples are: numbers of minibeasts found outside; seed and plant growth; leaves on trees; and type of clothes worn by people.
	Possible evidence
	Can name the four seasons and identify when in the year they occur
	Can describe weather in different seasons over a year
	Can describe days as being longer (in time) in the summer and shorter in the winter
	Can describe other features that change through the year
	Working Scientifically Activities
	Collect information about the weather regularly throughout the year.
	 Present this information in tables and charts to compare the weather across the seasons.
	• Collect information, regularly throughout the year, of features that change with the seasons e.g. plants, animals, humans.
	Present this information in different ways to compare the seasons.
	Gather data about day length regularly throughout the year and present this to compare the seasons.
	Possible evidence
	Use the evidence gathered to describe the general types of weather and changes in day length over the seasons.
	• Use their evidence to describe some other features of their surroundings, e.g. themselves, animals, plants that change over the seasons
	Demonstrate their knowledge in different ways e.g. making a weather forecast video, writing seasonal poetry, creating seasonal artwork
Vocabulary	Weather (sunny, rainy, windy, snowy etc.)
	Seasons (winter, summer, spring, autumn)
	Sun, sunrise, sunset, day length
Enrichment	



Year 1/2	Spring 2
Cycle B – 2021-2022	Everyday material (1)Uses of everyday materials (2)
NC POS	 distinguish between an object and the material from which it is made
	 identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
	 describe the simple physical properties of a variety of everyday materials
	 compare and group together a variety of everyday materials on the basis of their simple physical properties.
	• identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
	• find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
Knowledge and Skills	Key learning
	All objects are made of one or more materials. Some objects can be made from different materials e.g. plastic, metal or wooden spoons.
	Materials can be described by their properties e.g. shiny, stretchy, rough etc. Some materials e.g. plastic can be in different forms with very different properties.
	All objects are made of one or more materials that are chosen specifically because they have suitable properties for the task. For example, a water bottle is made of plastic
	because it is transparent allowing you to see the drink inside and waterproof so that it holds the water. When choosing what to make an object from, the properties needed
	are compared with the properties of the possible materials, identified through simple tests and classifying activities. A material can be suitable for different purposes and an
	object can be made of different materials.
	Objects made of some materials can be changed in shape by bending, stretching, squashing and twisting. For example, clay can be shaped by squashing, stretching, rolling,
	pressing etc. This can be a property of the material or depend on how the material has been processed e.g. thickness.
	Possible evidence
	Can label a picture or diagram of an object made from different materials
	Can describe the properties of different materials
	Can name an object, say what material it is made from, identify its properties and make a link between the properties and a particular use
	Can label a picture or diagram of an object made from different materials
	For a given object can identify what properties a suitable material needs to have
	Whilst changing the shape of an object can describe the action used
	Can use the words flexible and/or stretchy to describe materials that can be changed in shape and stiff and/or rigid for those that cannot
	Can recognise that a material may come in different forms which have different properties
	Working Scientifically Activities
	Classify objects made of one material in different ways e.g. a group of object made of metal.
	Classify in different ways one type of object made from a range of materials e.g. a collection of spoons made of different materials.
	Classify materials based on their properties.
	• Test the properties of objects e.g. absorbency of cloths, strength of party hats made of different papers, stiffness of paper plates, waterproofness of shelters.
	Classify materials.
	Make suggestions about alternative materials for a purpose that are both suitable and unsuitable
	Test the properties of materials for particular uses e.g. compare the stretchiness of fabrics to select the most appropriate for Elastigirl's costume, test materials for waterproofness to select the most appropriate for a rain hat
	Possible evidence
	russibile evidence



Year 1/2	Spring 2
Cycle B - 2021-2022	Everyday material (1)Uses of everyday materials (2)
	Can sort objects and materials using a range of properties
	Can choose an appropriate method for testing an object for a particular property
	• Can use their test evidence to answer the questions about properties e.g. "Which cloth is the most absorbent?"
	Can sort materials using a range of properties
	Can explain using the key properties why a material is suitable or not suitable for a purpose
	Can begin to choose an appropriate method for testing a material for a particular property
	• Can use their test evidence to select appropriate material for a purpose e.g. Which material is the best for a rain hat?
Vocabulary	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see-through
	Names of materials – wood, metal, plastic, glass, brick, rock, paper, cardboard
	Properties of materials – as for Year 1 plus opaque, transparent and translucent, reflective, non-reflective, flexible, rigid
	Shape, push/pushing, pull/puling, twist/twisting, squash/squashing, bend/bending, stretch/stretching
Enrichment	



Year 1/2	Summer 1
Cycle B – 2021-2022	Plants (1+2)
NC POS	 identify and name a variety of common wild and garden plants, including deciduous and evergreen trees
	 identify and describe the basic structure of a variety of common flowering plants, including trees.
	 observe and describe how seeds and bulbs grow into mature plants
	• find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
Knowledge and Skills	Key learning
	Growing locally, there will be a vast array of plants which all have specific names. These can be identified by looking at the key characteristics of the plant. Plants have
	common parts, but they vary between the different types of plants. Some trees keep their leaves all year while other trees drop their leaves during autumn and grow them
	again during spring.
	Plants may grow from either seeds or bulbs. These then germinate and grow into seedlings which then continue to grow into mature plants. These mature plants may have flowers which then develop into seeds, berries, fruits etc. Seeds and bulbs need to be planted outside at particular times of year and they will germinate and grow at
	different rates. Some plants are better suited to growing in full sun and some grow better in partial or full shade. Plants also need different amounts of water and space to
	grow well and stay healthy.
	Possible evidence
	Can name trees and other plants that they see regularly
	Can describe some of the key features of these trees and plants e.g. the shape of the leaves, the colour of the flower/blossom
	Can point out trees which lost their leaves and those that kept them the whole year
	Can point to and name the parts of a plant, recognising that they are not always the same e.g. leaves and stems may not be green
	Can describe how plants that they have grown from seeds and bulbs have developed over time
	Can identify plants that grew well in different conditions
	Working Scientifically Activities
	Make close observations of leaves, seeds, flowers etc.
	Compare two leaves, seeds, flowers etc.
	Classify leaves, seeds, flowers etc. using a range of characteristics.
	Identify plants by matching them to named images.
	Make observations of how plants change over a period of time.
	• When further afield, spot plants that are the same as those in the local area studied regularly, describing the key features that helped them.
	Make close observations of seeds and bulbs.
	Classify seeds and bulbs.
	Research and plan when and how to plant a range of seeds and bulbs.
	Look after the plants as they grow – weeding, thinning, watering etc.
	Make close observations and measurements of their plants growing from seeds and bulbs.
	Make comparisons between plants as they grow.
	Possible evidence



Year 1/2	Summer 1
Cycle B – 2021-2022	Plants (1+2)
	Can sort and group parts of plants using similarities and differences
	Can use simple charts etc. to identify plants
	Can collect information on features that change during the year
	Can use photographs to talk about how plants change over time
	Can spot similarities and difference between bulbs and seeds
	Can nurture seeds and bulbs into mature plants identifying the different requirements of different plants
Vocabulary	Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud
	Names of trees in the local area
	Names of garden and wild flowering plants in the local area
	As for Year 1 plus light, shade, sun, warm, cool, water, grow, healthy
Enrichment	



Year 1/2	Summer 2
Cycle B - 2021-2022	Living Things and their Habitats (2)
NC POS	 explore and compare the differences between things that are living, dead, and things that have never been alive
	• 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
	 identify and name a variety of plants and animals in their habitats, including micro-habitats
	• describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.
Knowledge and <i>Skills</i>	Key learning
	All objects are either living, dead or have never been alive. Living things are plants (including seeds) and animals. Dead things include dead animals and plants and parts of
	plants and animals that are no longer attached e.g. leaves and twigs, shells, fur, hair and feathers (This is a simplification, but appropriate for Year 2 children.)
	An object made of wood is classed as dead. Objects made of rock, metal and plastic have never been alive (again ignoring that plastics are made of fossil fuels).
	Animals and plants live in a habitat to which they are suited, which means that animals have suitable features that help them move and find food and plants have suitable
	features that help them to grow well. The habitat provides the basic needs of the animals and plants – shelter, food and water.
	Within a habitat there are different micro-habitats e.g. in a woodland – in the leaf litter, on the bark of trees, on the leaves. These micro-habitats have different conditions
	e.g. light or dark, damp or dry. These conditions affect which plants and animals live there. The plants and animals in a habitat depend on each other for food and shelter
	etc. The way that animals obtain their food from plants and other animals can be shown in a food chain.
	Possible evidence
	Can find a range of items outside that are living, dead and never lived
	Can name a range of animals and plants that live in a habitat and micro-habitats that they have studied
	Can talk about how the features of these animals and plants make them suitable to the habitat
	Can talk about what the animals eat in a habitat and how the plants provide shelter for them
	Can construct a food chain that starts with a plant and has the arrows pointing in the correct direction
	Working Scientifically Activities
	Explore the outside environment regularly to find objects that are living, dead and have never lived.
	Classify objects found in the local environment.
	Observe animals and plants carefully, drawing and labelling diagrams.
	Create simple food chains for a familiar local habitat from first-hand observation and research.
	Create simple food chains from information given e.g. in picture books (Gruffalo etc.).
	Possible evidence
	Can sort into living, dead and never lived
	Can give key features that mean the animal or plant is suited to its micro-habitat
	Using a food chain can explain what animals eat
	• Can explain in simple terms why an animal or plant is suited to a habitat e.g. the caterpillar cannot live under the soil like a worm as it needs fresh leaves to eat; the
	seaweed we found on the beach cannot live in our pond because it is not salty
Vocabulary	Living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed
	Names of local habitats e.g. pond, woodland etc.
	Names of micro-habitats e.g. under logs, in bushes etc.
Enrichment	