



AU	KS1		LKS2			UKS2	
AUTUMN							
(Autumn) seasons observe and dassociated with Aulength varies. Key Learning In the UK, the day lensummer (about 16 houreach day until mid-winteach day until	ges across the four escribe weather tumn and how day gth is longest at mid- rs) and gets shorter ter (about 8 hours) gain. ges with the seasons. In der and rainier in dryer in the Summer. causes many other es are numbers of de, seed and plant and type of clothes windy, snowy etc.), her, Spring, Autumn), y length quiries) but the weather he year in in table and charts to her seasons gularly throughout the hange with the seasons mans in in different ways to length regularly d present this to the frequency of but outdoor areas t, river) at different his data can be shared hool curriculum, different vegetables are	Use their 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, 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	National Curriculum objectives: Recognise that they need light in order to see things and that dark is the absence of light. Notice that light is reflected from surfaces. Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. Recognise that shadows are formed when the light from a light source is blocked by a solid object. Find patterns in the way that the size of shadows change. Key Learning We see objects because our eyes can sense light. Dark is the absence of light. We cannot see anything in complete darkness. Some objects, for example the sun, light bulbs and candles are sources of light. Objects are easier to see if there is more light. Some surfaces reflect light. Objects are easier to see when there is less light if they are reflective. The light from the sun can damage our eyes and therefore we should not look directly at the Sun and can protect our eyes by wearing sunglasses or sunhats in bright light. Shadows are formed on a surface when an opaque or translucent object is between a light source and the surface and blocks some of the light. The size of the shadow depends on the position of the source, object and surface. Key vocabulary: Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous Applying (including enquiries) Explore how different objects are more or less visible in different levels of lighting Explore how objects with different surfaces e.g. shiny vs matt are more or less visible explore how shadows vary as the distance between a light source, an object or surface is changed Explore shadows which are connected to and disconnected from the object e.g. shadows of clouds and children in the playground Choose suitable materials to make shadow puppets Create artwork using shadows	objects in light and can describe dark as the absence of light Can state that it is dangerous to view the sun directly and state precautions used to view the sun, for example in eclipses Can define transparent, translucent and opaque Can describe how shadows are formed by objects blocking light. Can describe patterns in visibility of different objects in different lighting conditions and predict which will be more or less visible as conditions change Can clearly explain, giving examples, that objects are not visible in complete darkness Can describe and demonstrate how shadows are formed by blocking light Can describe, demonstrate and make predictions about patterns in how shadows vary	Light		
	K2T		LKSZ			UKSZ	





key vocabulary

iquids and gases

evaporation and

melting and freezing

Can name properties of solids,

Can give everyday examples of

Can describe the water cycle

Can give reasons to justify why

mething is a solid liquid or gas

Can give examples of things that

melt/freeze and how their melting

From their observations, can give

Jsing their data, can explain wha

affects how quickly a solid melts

Can measure temperatures using

condensation on the inside the

hot water cup but on the outside

rom their data, can explain how

the water cycle in a range of ways

e.g. diagrams, explanation text,

the melting points of some

Can explain why there is

to speed up or slow down

of the icy water cup

naterials

Can give everyday examples of

materials

National Curriculum Objectives

- 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
- Compare and group together a variety of everyday materials on the basis Can choose an appropriate of their simple physical properties.

Key Learning

All objects are made of one or more materials. to answer the questions 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.

Key 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

Applying (including enquiries)

Classify objects made of one material in different ways e.g. a group of objects made of netal

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

Can label a picture or diagram of an object made from different materials Can describe the properties of different materials

Can sort objects and materials using a range of properties method for testing an object for a particular property Can use their test evidence about properties e.g. Which cloth is the most absorbent?

States National Curriculum Objectives

compare and group materials together, Matte according to whether they are solids, liquids or

- observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)
- identify the part played by evaporation and condensation condensation in the water cycle and associate the rate of evaporation with temperature

Key Learning

A solid keeps its shape and has a fixed volume. A liquid has a fixed volume but changes in shape to fit the container. A liquid can be poured and keeps a level, horizontal surface. A gas fills all available space; it has no fixed shape or volume. Granular and powdery solids like sand can be confused with liquids because they can be poured, but when poured they form a heap and they do not keep a level surface when tipped. Each individual grain a thermometer demonstrates the properties of a solid. Melting is a state change from solid to liquid. Freezing is a state change from liquid to solid. The freezing point of water is 0°C. Boiling is a change of state from liquid to gas that happens when a liquid is heated to a specific temperature and bubbles of the gas can be seen in the liquid. Water boils when it is heated to 100°C. Evaporation Can present their learning about is the same state change as boiling (liquid to gas) but it happens slowly at lower temperatures and only at the surface of the liquid. Evaporation happens more quickly if story of a water droplet the temperature is higher, the liquid is spread out or it is windy. Condensation is the change back from a gas to a liquid caused by cooling.

Water at the surface of seas, rivers etc. evaporates into water vapour (a gas). This rises, cools and condenses back into a liquid forming clouds. When too much water has condensed the water droplets in the cloud get too heavy and fall back down as rain, snow, sleet etc. and drain back into rivers etc. This is known as precipitation. This is the water cycle.

Key vocabulary

Solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature, water

Applying (including enquiries)

bserve closely and classify a range of solids Observe closely and classify a range of liquids

Explore making gases visible e.g. squeezing sponges under water to see bubbles, and showing their effect e.g. using straws to blow objects, trees moving in the wind

Classify materials according to whether they are solids, liquids

Observe a range of materials melting e.g. ice, chocolate, butter nvestigate how to melt ice more quickly

Observe the changes when making rocky road cakes or ice-cream Investigating melting point of different materials e.g. ice, margarine, butter and chocolate

Explore freezing different liquids e.g. tomato ketchup, oil,

Use a thermometer to measure temperatures e.g. icy water melting), tap water, hot water, boiling water (demonstration)

Can create a concept map, Propert National Curriculum Objectives including arrows linking the ies and

s of

Change . compare and group together everyday materials on the basis of their properties, including Materia their hardness, solubility, transparency, conductivity (electrical and thermal), and response

- know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- use knowledge of solids, liquids and gases to decide how mixtures might be separated, including 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
- explain 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

Key Learning

Materials have different uses depending on their properties and state (liquid, solid, gas). Properties include hardness, transparency, electrical and thermal conductivity and attraction to magnets. Some materials will dissolve in a liquid and form a solution while others are insoluble and form sediment.

Mixtures can be separated by filtering, sieving and

Some changes to materials such as dissolving, mixing and changes of state are reversible, but some changes such as burning wood, rusting and mixing vinegar with bicarbonate of soda result in the formation of new materials and these are not reversible.

Key vocabulary

Thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve reversible/non-reversible change, burning, rusting, new

Applying (including enquiries)

Investigate the properties of different materials in order to recommend materials for particular functions depending on these properties e.g. test waterproofness and thermal insulation to identify a suitable fabric for a

Explore adding a range of solids to water and other liquids e.g. cooking oil, as appropriate Investigate rates of dissolving by carrying out comparative and fair test

Can use understanding of properties to explain everyday uses of materials. For example, how bricks, wood, glass and metals are used in buildings

Can explain what dissolving means, giving examples

Can name equipment used for filtering and sieving

Can use knowledge of liquids, gases and solids to suggest how materials can be recovered from solutions or mixtures by evaporation, filtering or sieving

Can describe some simple reversible and non-reversible changes to materials, giving examples

Can create a chart or table grouping/comparing everyday materials by different properties Can use test evidence gathered about different properties to uggest an appropriate material for a particular purpose Can group solids based on their observations when mixing them with water Can give reasons for choice of equipment and methods to separate a given solution or mixture such as salt or sand in water Can explain the results from their investigations involving dissolving and non-reversible change





Observe water evaporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on paper towels, liquids in containers Use secondary sources to find out about the water cycle	Separate mixtures by sieving, filtering and evaporation, choosing the most suitable method and equipment for each mixture Explore a range of non-reversible changes e.g. rusting, adding fizzy tablets to water, burning Carry out comparative and fair tests involving non-reversible changes e.g. What affects the rate of rusting? What affects the amount of gas produced? Research new materials produced by chemists e.g. Spencer Silver (glue of sticky notes) and Ruth Benerito (wrinkle free cotton)
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							encer Silver (glue of sticky notes) and Ruth Benerito inkle free cotton)	
Spring	KS1			LKS2			UKS2	
		la			la .		h	
1 Seasonal changes	National Curriculum Objectives observe changes across the four	Can name the four seasons and identify when in the	Sound	National Curriculum Objectives identify how sounds are made,	Can name sound sources and state that sounds are	and	National Curriculum Objectives	Can explain the process of evolution
(Winter	seasons	year they occur.		associating some of them with		inheritance	 recognise that living things have changed 	Can give examples of how plants
into	observe and describe weather	Can describe weather in		something vibrating	of the object.		over time and that fossils provide information	and animals are suited to an
Spring))	associated with spring and how day	different seasons over a		recognise that vibrations from sounds	Can state that sounds		about living things that inhabited the Earth	environment
	length varies.	year.		travel through a medium to the ear	travel through different		millions of years ago	Can give examples of how an animal or plant has evolved over
		Can describe days as being		find patterns between the pitch of a	mediums such as air,		 recognise that living things produce 	time e.g. penguin, peppered
	Key Learning	longer (in time) in the		sound and features of the object that	water, metal		offspring of the same kind, but normally offspring	
	In the UK, the day length is longest at mid-	summer and shorter in the		produced it	Can give examples to		vary and are not identical to their parents	Give examples of living things that
	summer (about 16 hours) and gets shorter	winter.		 find patterns between the volume of a 	demonstrate how the pitch		 identify how animals and plants are 	lived millions of years ago and the
	each day until mid-winter (about 8 hours)	Can describe other features		sound and the strength of the vibrations	of a sound are linked to the		adapted to suit their environment in different	fossil evidence we have to support
	before getting longer again.	that change through the		that produced it	features of the object that		ways and that adaptation may lead to evolution.	Can give examples of fossil
	The weather also changes with the seasons. In	year		recognise that sounds get fainter as the	Can give examples of how			evidence that can be used to
	the UK, it is usually colder and rainier in	Use their evidence		distance from the sound source increases.	to change the volume of a		Key Learning	support the theory of
	Winter and hotter and dryer in the Summer.	gathered to describe the		Van Lagraina	sound e.g. increase the size		All living things have offspring of the same kind, as features in the offspring are inherited from the parents.	evolution (Fossil hunting at
	The change in weather causes many other	general types of weather		Key Learning A sound source produces vibrations which trave	_		Due to sexual reproduction, the offspring are not	Kunswick bay)
	changes; some examples are numbers of	and changes in day length		through a medium from the source to our ears.	blowing harder		identical to their parents and vary from each other.	Can identify characteristics that
	minibeasts found outside, seed and plant	over the seasons.		Different mediums such as solids, liquids and	Can give examples to		Plants and animals have characteristics that make them	will make a plant or animal suited
	growth, leaves on trees and type of clothes worn by people.	Use their evidence to		gases can carry sound but sound cannot travel	demonstrate that sounds		suited (adapted) to their environment. If the	or not suited to a particular
	Key vocabulary	describe some other		through a vacuum (an area empty of matter).	get fainter as the distance		environment changes rapidly some variations of a species may not suit the new environment and will die.	habitat
	Weather (sunny, rainy, windy, snowy etc.),	features of their		The vibrations cause parts of our body inside	from the sound source		If the environment changes slowly, animals and plants	Can link the patterns seen in the
	seasons (Winter, Summer, Spring, Autumn),	surroundings, themselves,		our ears to vibrate, allowing us to hear (sense)	increases		with variations that are best suited survive in greater	model to the real examples Can explain why the dominant
	sun, sunrise, sunset, day length	animals, plants that change		the sound.			numbers to reproduce and pass their characteristics on	colour of the peppered moth
	Sun, sunnise, sunset, day length	over the seasons		The loudness (volume) of the sound depends or	Can explain what happens		to their young. Over time these inherited	changed over a very short period
	Applying (including enquiries)	Demonstrate their		the strength (size) of vibrations which decreases	when you strike a drum or		characteristics become more dominant within the population. Over a very long period of time these	of time
	Collect information about the weather	knowledge in different		as they travel through the medium. Therefore,	pluck a string and use a		characteristics may be so different to how they were	
	regularly throughout the year	ways e.g. making a weather forecast video, writing		sounds decrease in volume as you move away	diagram to show how sounds travel from an		originally that a new species is created. This is	
	Present this information in table and charts to	seasonal noetry creating			object to the ear		evolution.	
	compare the weather across the seasons	seasonal artwork		which blocks sound effectively. Pitch is the highness or lowness of a sound and	Can demonstrate how to		Fossils give us evidence of what lived on the Earth	
	Collect information, regularly throughout the			is affected by features of objects producing the	increase or decrease pitch		millions of year ago and provide evidence to support the theory of evolution. More recently scientists such	
	year, of features that change with the seasons			sounds. For example, smaller objects usually	and volume using musical		as Darwin and Wallace observed how living things	
	e.g. plants, animals, humans			produce higher pitched sounds.	instruments or other		adapt to different environments to become distinct	
	Present this information in different ways to			Key Vocabulary	objects		varieties with their own characteristics.	
	compare the seasons			Sound, source, vibrate, vibration, travel, pitch	Can use data to identify		Key vocabulary	
	Gather data about day length regularly throughout the year and present this to			(high, low), volume, faint, loud, insulation	patterns in pitch and		Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species,	
	compare the seasons				volume		fossils	
	compare the seasons			Applying (including enquiries)				





		Children will observe the frequency of animals/minibeasts in our outdoor areas (pond, moorland, forest, river) at different points in the season. This data can be shared within COGL. Through our Garden School curriculum, children will learn that different vegetables are planted at different times of the year.		 	Explore how string telephones or ear gongs work Explore using objects that change in feature to change pitch and volume such as length of guitar string, bottles of water or tuning forks Measure sounds over different distances Measure sounds through different insulation materials	Can explain how loudness can be reduced by moving further from the sound source or by using a sound insulating medium		Applying (including enquiries) Design a new plant or animal to live in a particular habitat Use models to demonstrate evolution e.g. Darwin's finches bird beak activity Use secondary sources to find out about how the population of peppered moths changed during the industrial revolution Make observations of fossils to identify living things that lived on Earth millions of years ago Identify features in animals and plants that are passed on to offspring Explore this process by considering the artificial breeding of animals or plants e.g. dogs Compare the ideas of Charles Darwin and Alfred Wallace on evolution Research the work of Mary Anning and how this provided evidence of evolution	
j		KS1			LKS2			UKS2	
2 P	Plants	National Curriculum Objectives:	Can describe how plants	Animals	National Curriculum Objectives:	Can sequence the main	Animals	National Curriculum Objectives	Can draw a diagram of the
	year 2		that they have grown from	including		parts of the digestive	including	=	circulatory system and label
C	Objectives)	, i	seeds and bulbs have	humans (Y4	basic parts of the digestive system in	system	humans (Y6	, , , , , , ,	the parts and annotate it to
		•	developed over time	National	humans		National		show what the parts do
		, 9		Curriculum				,	Produces a piece of writing
		0,		Objectives)	·	the digestive system onto a		, , , , , , , , , , , , , , , , , , , ,	that demonstrates the key
			conditions		construct and interpret a variety of	human outline		age	knowledge e.g. explanation
		Key Learning	Can anot similarities and		food chains, identifying producers,	Can dassriba what hannans		1	text, job description of the
			Can spot similarities and difference between bulbs		predators and prey.	Can describe what happens in each part of the		describe the ways in which nutrients and	neart
		Plants may grow from either seeds or bulbs. These then germinate and grow into seedlings				digestive system		water are transported within animals, including	
			Can nurture seeds and		Key Learning	digestive system		humans	Use the role play model to
		· · · · · · · · · · · · · · · · · · ·	bulbs into mature plants			Can point to the three			explain the main parts of the
		, ,	identifying the different		ood criters the body through the mouth.	different types of teeth in		,	circulatory system and their
		· · · · · · · · · · · · · · · · · · ·	requirements of different		rigestion starts when the teeth start to break	their mouth and talk about			role
		•	plants		ine rood down. Janva is added and the tongue	their shape and what they			Can use subject knowledge
		they will germinate and grow at different			ons the rood into a ball. The rood is swallowed	are used for		, , ,	about the heart whilst writing
		rates. Some plants are better suited to			stomach. Here the food is broken down further			back to the heart and is then pumped around the	_
		growing in full sun and some grow better in			by being churned around and other chemicals	Can name producers,			Can explain both the positive
		partial or full shade. Plants also need different			are added. The food passes into the small	predators and prey within		transported in the blood to the muscles and other	The state of the s
		amounts of water and space to grow well and				a habitat		parts of the body where they are needed. As they	
		stay healthy.		1	ood and leave the digestive system to be used			are used they produce carbon dioxide and other	the body
		Key vocabulary			elsewhere in the body. The rest of the food then	Can construct food chains		,	Present information e.g. in a
		As for year 1 plus - light, shade, sun, warm,			passes into the large intestine. Here the water is			,	health leaflet describing
		cool, water, grow, healthy		ı	removed for use elsewhere in the body. What is	Can use diagrams or a		, ,	impact of drugs and lifestyle
					eft is then stored in the rectum until it leaves	model to describe the		,	on the body
		Applying (including enquiries)			the body through the arias when you go to the	journey of food through the body explaining what		circulatory system.	
		Make close observations of seeds and bulbs			onet.	happens in each part.		Diet, exercise, drugs and lifestyle have an impact	
		Classify seeds and bulbs			Humans have four types of teeth - incisors for	Can record the teeth in		on the way our bodies function. They can affect	
		Research and plan when and how to plant a			cutting, canines for tearing, molars and premolars for grinding (chewing).	their mouth (make a dental		how well out heart and lungs work, how likely we are to suffer from conditions such as diabetes,	
		range of seeds and bulbs			iversizes for grinding (chewing). Living things can be classified as producers,	record)		how clearly we think, and generally how fit and	
		Look after the plants as they grow – weeding, thinning, watering etc.			predators and prey according to their place in	Can explain the role of the		well we feel. Some conditions are caused by	
					he food chain.	different types of teeth		deficiencies in our diet e.g. lack of vitamins.	





Make close observations and measurements	Key vocabulary Can explain how the te	eth Key vocabulary
of their plants growing from seeds and bulbs	Digestive system, digestion, mouth, teeth, in animal skulls show the	Heart, pulse, rate, pumps, blood, blood vessels,
Make comparisons between plants as they	saliva, oesophagus, stomach, small intestine, are carnivores, herbivo	res transported, lungs, oxygen, carbon dioxide,
grow.	nutrients, large intestine, rectum, anus, teeth, or omnivores.	nutrients, water, muscles, cycle, circulatory
	incisor, canine, molar, premolars, herbivore, Can create food chains	system, diet, exercise, drugs and lifestyle
See Garden School Curriculum.	carnivore, omnivore, producer, predator, prey, based on research	
	food chain	Applying (including enquiries)
		Create a role play model for the circulatory
	Applying (including enquiries)	system
		Carry out a range of pulse rate investigations
	Research the function of the parts of the	Fair test – effect of different activities on
	digestive system	my pulse rate
	Create a model of the digestive system using	Pattern seeking – exploring which groups
	household objects	of people may have higher or lower resting
	Explore eating different types of food, to	pulse rates
	identify which teeth are being used for cutting,	Observation over time - how long does it
	tearing and grinding (chewing)	take my pulse rate to return to my resting
	Classify animals as herbivores, carnivores or	pulse rate (recovery rate)
	omnivores according to the type of teeth they	Pattern seeking – exploring recovery rate
	have in their skulls	for different groups of people
	Use food chains to identify producers, predators	Learn about the impact of exercise, diet, drugs
	and prey within a	and lifestyle on the body. This is likely to be
	habitat (pond/river/moor/forest)	
	Use secondary sources to identify animals in a	taught through direct instruction due to its sensitive nature
	habitat and find out what they eat	Sensitive nature
	habitat and find out what they eat	

SUN		KS1		LKS2			UKS2	
SOIVINER								
1	Seasonal Changes • observe changes acrosseasons – focus on remigratory birds Key Learning In the UK, the day length is I mid-summer (about 16 hours) shorter each day until mid-winhours) before getting longer at The weather also changes with seasons. In the UK, it is usually rainier in Winter and hotter at the Summer. The change in with many other changes; some expounders of minibeasts found	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 summe and shorter in the winter. Can describe other features that change through the year 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, themselves,	,	 recognise that living things can be grouped in a variety of ways explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment recognise that environments can change and that this can sometimes pose dangers to living things. Key Learning Living things can be grouped (classified) in different ways according to their features. Classification keys can be used to identify and name living things. Living things live in a habitat which provides an environment to which they are suited (year 2 learning). These environments may change 	habitats, giving the key features that helped them to identify them Can give examples of how an environment may	Curriculu m Objectives	 describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird describe the life process of reproduction in some plants and animals. Key Learning As part of their life cycle plants and animals reproduce. Most animals reproduce sexually. This involves two parents where the sperm from the male fertilises the female egg. Animals including humans have offspring which grow into adults. In humans and some animals these offspring will be born live, such as babies or kittens, and then grow into adults. In other animals, such as chickens or snakes, there may be eggs laid that hatch to young which then grow to adults. Some young undergo a further change before becoming adults e.g. 	Can draw the life cycle of a range of animals identifying similarities and differences between the life cycles Can explain the difference between sexual and asexual reproduction and give examples of how plants reproduce in both ways Can present their understanding of the life cycle of a range of animals in different ways e.g. drama, pictorially, chronological reports,
	and plant growth, leaves on to of clothes worn by people. Key vocabulary	animais, piants that change		etc. Humans also cause the environment to change. This can be in a good way i.e. positive	Can present their learning about changes to the environment in		metamorphosis.	critionological reports, creating a game Can identify patterns in life cycles





		Weather (sunny, rainy, windy, snowy etc.),		human impact, such as setting up nature reserves		asexual plant reproduction which involves only one	-
		seasons (Winter, Summer, Spring, Autumn),	writing seasonal poetry,	or in a bad way i.e. negative human impact, such		parent. Gardeners may force plants to reproduce	animal life cycles studied
		sun, sunrise, sunset, day length	creating seasonal artwork	as littering. These environments also change with	persuasive letter	asexually by taking cuttings. Sexual reproduction	Can explain how a range of
				the seasons; different living things can be found in		occurs through pollination, usually involving wind	plants reproduce asexually
		Applying (including enquiries)		a habitat at different times of the year		or insects.	(pond plants)
		Collect information about the weather				Key vocabulary	
		regularly throughout the year		Key vocabulary		Life cycle, reproduce, sexual, sperm, fertilises, egg,	
		Present this information in table and charts		Classification, classification keys, environment,		live young, metamorphosis, asexual, plantlets,	
		to compare the weather across the seasons		habitat, human impact, positive, negative,		runners, bulbs, cuttings	
		· · · · · · · · · · · · · · · · · · ·		migrate, hibernate			
		Collect information, regularly throughout		inglace, macriace			
		the year, of features that change with the		Applying (including enquiries)		Applying (including enquiries)	
		seasons e.g. plants, animals, humans		Observe plants and animals in different habitats		Use secondary sources and, where possible, first	
		Present this information in different ways				hand observations to find out about the life cycle of	
		to compare the seasons		throughout the year (pond/river/moor/forest)		a range of animals	
		Gather data about day length regularly		Compare and contrast the living things observed			
		throughout the year and present this to		Use classification keys to name unknown living		Compare the gestation times for mammals and look	•
		compare the seasons		things (pond/river/moor/forest)		for patterns e.g. in relation to size of animal or	
		Children will observe the frequency of		Classify living things found in different habitats		length of dependency after birth	
		animals/minibeasts in our outdoor areas		based on their features		Look for patterns between the size of an animal and	
		(pond, moorland, forest, river) at different		Create a simple identification key based on		its expected life span	
		points in the season. This data can be		observable features		Grow and observe plants that reproduce asexually	
		shared within COGL.		Use fieldwork to explore human impact on the		e.g. strawberries, spider plant, potatoes	
				local environment e.g. litter, tree planting (link to		Take cuttings from a range of plants e.g. African	
				garden school curriculum)		violet, mint <mark>(Garden School curriculum)</mark>	
		Through our Garden School curriculum,		Use secondary sources to find out about how		Plant bulbs and then harvest to see how they	
		The state of the s		environments may naturally change		multiply	
		children will learn that different vegetables		Use secondary sources to find out about human		Use secondary sources to find out about	
		are planted at different times of the year.		impact, both positive and negative, on		pollination	
				environments			
		KS1		LKS2		UKS2	
2	Humans		Can play and lead 'Simon	Spare half term to catch up.		Spare half term to catch up.	
	(year 1	 identify and name a variety of 	says'.				
	National		During PE lessons, can follow	Check progress against Applying (including		Check progress against Applying (including	
		amphibians, reptiles, birds and mammals	instructions involving parts of	enquiries) National Curriculum Objectives and plan		enquiries) National Curriculum Objectives and plan	
	Objectives)		the body	investigations to meet gaps.		investigations to meet gaps.	
	-	,	Can label parts of the body on				
		· · · · · · · · · · · · · · · · · · ·	pictures and diagrams				
			Can explore objects using				
			different senses				
		Humans have keys parts in common, but	and create serious				
		these vary from person to person. Humans	Can use first-hand close				
		land other animais) find out about the	observations to make detailed				
		world using their senses. Humans have live					
		senses – signi tolich taste hearing and	drawings				
		smalling These senses are linked to	Can name body parts correctly				
		particular parts of the body.	when talking about				
		Manage de la manag	measurements and				
			comparisons				
		Parts of the body including those linked to	'My arm is x straws long.'				
		PSHE teaching (see joint document					
		produced by the ASE and PSHE association)					





es, touch, see, smell, taste, hear, 'My arm is x straws long and
sis (skin), see, sine, aast, least, least, stee, sing skin), eyes, nose, ear and tongue although we often use our fingers and sto feel objects the children should stand that we can feel with many of our body ying (including enquiries) if first hand close observations of parts be body e.g. hands, eyes oare two people measurements of parts of their body pare parts of their own body for patterns between people e.g. Do le with big hands have big feet? (ifty people according to their features tigate human senses Which part of my body is good for gg, which is not? h food/flavours (including foods in in Garden School) can I identify by