







AND MARY SU		Science Curriculum Cycle A				
AUTUMN KS1		LKS2	UKS2			
National Curriculum Objectives observe changes across the four seasons observe and describe weather associated with Autumn and how day length varies. Key Learning In the UK, the day length is longest at midsummer (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. Key vocabulary Weather (sunny, rainy, windy, snowy etc.), seasons (Winter, Summer, Spring, Autumn), sun, sunrise, sunset, day length Applying (including enquiries) Collect information about the weather regularly throughout the year Present this information in table 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 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 ar planted at different times of the year.	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 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	 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 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 	National Curriculum Objectives recognise that light appears to travel in straight lines recognise that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye explain that we see things because light travels from light sources to objects and then to our eyes use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them Key Learning Light appears to travel in straight lines and we see objects when light from them goes into our eyes. The light may come directly from light sources but for other objects some light must be reflected from the object to our eyes for the object to be seen. Objects that block light (are not fully transparent) will cause shadows. Because light travels in straight lines the shape of the object. Key vocabulary: As for year 3 plus straight lines, light rays. Applying (including enquiries) Explore different ways to demonstrate that light travels in straight lines e.g. shining a torch down a bent and straight hose pipe, shining a torch down a bent and straight hose pipe, shining a torch down a bent and shadows such as in periscope design, rear view mirrors and shadow puppets. Can describe with diagrams or models as appropriate how light travels in straight lines either from sources or reflected from other objects to objects because light travels in straight lines past travels in straight lines e.g. shining a torch down a bent and straight hose pipe, shining a torch down a bent and straight lines e.g. shining a torch down a bent and straight lines e.g. shining a torch down a bent and straight lines e.g. shining a torch down a bent and straight lines e.g. shining a torch down a bent and straight lines e.g. shining a torch down a bent and straight lines e.g. shining a torch down a bent and straight lines e.g. shining a torch down a bent and shadows are the behaviour of light, reflection and shadows and shadows down and shadows down and shadows down and shadows down			









key vocabulary

Everyday 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 materials.
- 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

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 gases
 - 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)

Observe 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 phiects, trees moving in the wind

Classify materials according to whether they are solids, liquids and gases

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

Observe the changes when making rocky road cakes or ice-cream nvestigating melting point of different materials e.g. ice, nargarine, butter and chocolate Explore freezing different liquids e.g. tomato ketchup, oil,

Can create a concept map, including arrows linking the es and Change . Can name properties of solids Materia

iquids and gases Can give everyday examples of $\mathbf{l}_{\mathbf{S}}$ melting and freezing Can give everyday examples o evaporation and

Can describe the water cycle

Can give reasons to justify why omething is a solid liquid or gas Can give examples of things that elt/freeze and how their meltir noints vary From their observations, can give the melting points of some Jsing their data, can explain what affects how quickly a solid melts Can measure temperatures using Can explain why there is condensation on the inside the hot water cup but on the outside of the icy water cup rom their data, can explain how

o speed up or slow down aporation the water cycle in a range of ways e.g. diagrams, explanation text,

Propert National Curriculum Objectives

- compare and group together everyday materials on the basis of their properties, including 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 separate a given solution or mixture 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 evaporation.

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 material

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

Can explain what dissolving means, giving examples

buildings

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 such as salt or sand in water Can explain the results from their investigations involving dissolving and non-reversible change









Use a thermometer to measure temperatures e.g. icy water Separate mixtures by sieving, filtering and evaporation, (melting), tap water, hot water, boiling water (demonstration) choosing the most suitable method and equipment for Observe water evaporating and condensing e.g. on cups of icy each mixture Explore a range of non-reversible changes e.g. rusting, Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on paper towels, liquids in adding fizzy tablets to water, burning Carry out comparative and fair tests involving noncontainers reversible changes e.g. What affects the rate of rusting? Use secondary sources to find out about the water cycle 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)

		KS1			LKS2			UKS2		
1 Seasonal changes (Winter into Spring)) Spring)) Key Learning In the UK, the dasummer (about 16 each day until mid before getting long The weather also of the UK, it is usually Winter and hotter The change in weather also of the UK, it is usually Winter and hotter The change in weather also of growth, leaves on worn by people. Key vocabulary Weather (sunny, reseasons (Winter, Soun, sunrise, sunse Applying (including Collect information regularly throughor Present this information compare the weather Collect information compare the weather into making the compare the weather information in the compare information compare information compare the weather into the compare information in the compare information compare infor	hanges across the four Ind describe weather Ith spring and how day Ith spring and gets shorter Ith spring again. Ith seasons. In a colder and rainier in and dryer in the Summer. Ith summer are numbers of coutside, seed and plant trees and type of clothes Ith spring, Autumn), It, day length It genquiries Ith seasons Ith seasons Ith spring and charts to the seasons Ith seasons Ith spring and how day Ith seasons Ith seasons Ith spring and how day Ith seasons Ith seasons Ith spring and how day Ith seasons Ith seas	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 • identify how sounds are made, associating some of them with something vibrating • recognise that vibrations from sounds travel through a medium to the ear • find patterns between the pitch of a sound and features of the object that produced it • find patterns between the volume of a sound and the strength of the vibrations that produced it • recognise that sounds get fainter as the distance from the sound source increases. Key Learning A sound source produces vibrations which traves through a medium from the source to our ears. Different mediums such as solids, liquids and gases can carry sound but sound cannot travel through a vacuum (an area empty of matter). The vibrations cause parts of our body inside our ears to vibrate, allowing us to hear (sense) the sound. The loudness (volume) of the sound depends on the strength (size) of vibrations which decrease as they travel through the medium. Therefore, sounds decrease in volume as you move away from the source. A sound insulator is a material which blocks sound effectively. Pitch is the highness or lowness of a sound and is affected by features of objects producing the sounds. For example, smaller objects usually	of a sound are linked to the features of the object that produced it Can give examples of how to change the volume of a sound e.g. increase the size of vibrations by hitting or blowing harder Can give examples to demonstrate that sounds get fainter as the distance from the sound source increases Can explain what happens when you strike a drum or pluck a string and use a diagram to show how sounds travel from an object to the ear Can demonstrate how to		National Curriculum Objectives	environment Can give examples of how an animal or plant has evolved over time e.g. penguin, peppered moth Give examples of living things tha lived millions of years ago and the fossil evidence we have to support this Can give examples of fossil evidence that can be used to support the theory of evolution (Fossil hunting at Runswick bay) Can identify characteristics that will make a plant or animal suited or not suited to a particular habitat Can link the patterns seen in the model to the real examples		









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	Gather data about day length regularly			Applying (including enquiries)	Can explain how loudness		Offspring, sexual reproduction, vary, characteristics,	
	throughout the year and present this to			Classify sound sources	can be reduced by moving		suited, adapted, environment, inherited, species,	
	compare the seasons			Explore making sounds with a range of objects	further from the sound		fossils	
	· ·			such as musical instruments and other	source or by using a sound			
	Children will observe the frequency of			household objects	insulating medium			
	animals/minibeasts in our outdoor areas			Explore how string telephones or ear gongs	insulating medium		Applying (including enquiries)	
							Design a new plant or animal to live in a particular	
	(pond, moorland, forest, river) at different			work			habitat	
	points in the season. This data can be shared			Explore using objects that change in feature to			Use models to demonstrate evolution e.g. Darwin's	
	within COGL.			change pitch and volume such as length of			finches bird beak activity	
				guitar string, bottles of water or tuning forks			Use secondary sources to find out about how the	
	Through our Garden School curriculum,			Measure sounds over different distances			population of peppered moths changed during the	
	children will learn that different vegetables			Measure sounds through different insulation			industrial revolution	
	are planted at different times of the year.			materials			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	
	KS1		LKS2			UKS2		
2 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	 observe and describe how seeds and 	that they have grown from	including	describe the simple functions of the	parts of the digestive	including	·	circulatory system and label
Objectives)		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	,,,,,,,	-		show what the parts do
	· ·	Can identify plants that	Curriculum	 identify the different types of teeth in 	Can draw the main parts of		functions of the heart, blood vessels and blood	Produces a piece of writing
	, 3	grew well in different	Objectives)		the digestive system onto a			that demonstrates the key
	temperature to grow and stay healthy.		Objectives	humans and their simple functions			l coopc bact or allet, ever else,	The state of the s
		conditions		construct and interpret a variety of	human outline		drugs and lifestyle on the way their bodies	knowledge e.g. explanation
	Key Learning			food chains, identifying producers,			function	text, job description of the
		Can spot similarities and		predators and prey.	Can describe what happens		 describe the ways in which nutrients and 	heart
	Plants may grow from either seeds or bulbs.	difference between bulbs			in each part of the		water are transported within animals, including	
	These then germinate and grow into seedlings	and seeds		Key Learning	digestive system		humans	
	which then continue to grow into mature	Can nurture seeds and		, -				Use the role play model to
	plants. These mature plants may have flowers	bulbs into mature plants		Food enters the body through the mouth.	Can point to the three		Key Learning	explain the main parts of the
		identifying the different		Digestion starts when the teeth start to break	different types of teeth in		-1 0	circulatory system and their
	· · · · · · · · · · · · · · · · · · ·	requirements of different		the food down. Saliva is added and the tongue	their mouth and talk about		The heart pumps blood in the blood vessels	role
		plants		rolls the food into a ball. The food is swallowed				Can use subject knowledge
	they will germinate and grow at different				are used for		, , , ,	about the heart whilst writing
	rates. Some plants are better suited to			and passes down the oesophagus to the	are used to:			_
	· · · · · · · · · · · · · · · · · · ·			stomach. Here the food is broken down further	Can name producers,		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 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	
	amounts of water and space to grow well and			intestine. Here nutrients are removed from the	a nabitat		parts of the body where they are needed. As they	
	stay healthy.			food and leave the digestive system to be used			/ 	the body
	Key vocabulary			elsewhere in the body. The rest of the food ther	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	5		blood back to the heart and then the cycle starts	health leaflet describing
	cool, water, grow, healthy			removed for use elsewhere in the body. What is	Can use diagrams or a		again as it is transported back to the lungs to be	impact of drugs and lifestyle
	, , , , , , , , , , , , , , , , , , , ,			left is then stored in the rectum until it leaves	model to describe the			on the body
	Applying (including anguiries)			the body through the anus when you go to the	journey of food through		circulatory system.	,
	Applying (including enquiries) Make close observations of seeds and bulbs			toilet.	the body explaining what		Diet, exercise, drugs and lifestyle have an impact	
				Humans have four types of teeth - incisors for	happens in each part.		on the way our bodies function. They can affect	
				COLUMN TO THE PROPERTY OF THE			ion the way our bodies function. They can affect	
	Classify seeds and bulbs						The state of the s	
	Classify seeds and bulbs Research and plan when and how to plant a range of seeds and bulbs			cutting, canines for tearing, molars and premolars for grinding (chewing).			how well out heart and lungs work, how likely we are to suffer from conditions such as diabetes,	









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.

See Garden School Curriculum

Living things can be classified as producers, predators and prey according to their place in the food chain.

Key vocabulary

Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, nutrients, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain

Applying (including enquiries)

Research the function of the parts of the digestive system Create a model of the digestive system using household objects Explore eating different types of food, to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat (pond/river/moor/forest)

Use secondary sources to identify animals in a

habitat and find out what they eat

Can record the teeth in their mouth (make a dental record)

Can explain the role of the different types of teeth Can explain how the teeth in animal skulls show they are carnivores, herbivores or omnivores. Can create food chains

based on research

how clearly we think, and generally how fit and well we feel. Some conditions are caused by deficiencies in our diet e.g. lack of vitamins.

Key vocabulary

Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs and lifestyle

Applying (including enquiries)

Create a role play model for the circulatory

Carry out a range of pulse rate investigations

- Fair test effect of different activities on my pulse rate
- Pattern seeking exploring which groups of people may have higher or lower resting pulse rates
- Observation over time how long does it take my pulse rate to return to my resting pulse rate (recovery rate)
- Pattern seeking exploring recovery rate for different groups of people Learn about the impact of exercise, diet, drugs

and lifestyle on the body. This is likely to be taught through direct instruction due to its sensitive nature

SUMN	KS1			LKS2			UKS2		
/IER	ân de la companya de								
		•	Can name the four seasons	Living	National Curriculum Objectives			National Curriculum Objectives	Can draw the life cycle of a
	Changes		and identify when in the year	things and		0 0	things and		range of animals
		 observe changes across the four 	they occur.	their		liabitats, giving the key	their babitata	 describe the differences in the life cycles of 	identifying similarities
		Scasons rocas on retaining	Can describe weather in	habitats	· · · · · · · · · · · · · · · · · · ·	leatures that helped	habitats (Y5	a manning an ampination, an insect and a sind	and differences between
			different seasons over a year.		, , , , , , , , , , , , , , , , , , , ,	them to identify them	National	 describe the life process of reproduction in 	the life cycles
			Can describe days as being		1 0	Can give examples of how	Curriculu	some plants and animals.	Can explain the difference
			longer (in time) in the summer		 recognise that environments can change 		m		between sexual and
			and shorter in the winter.		· · · · · · · · · · · · · · · · · · ·		Objectives)	Key Learning	asexual reproduction
		IKev i earning	Can describe other features		living things.	and due to human		As part of their life cycle plants and animals	and give examples of how
		In the UK, the day length is longest at	that change through the year			impact		reproduce. Most animals reproduce sexually. This	plants reproduce in both
		mid-summer (about 16 hours) and gets			Key Learning			involves two parents where the sperm from the	ways
		shorter each day until mid-winter (about 8			LIVING UNINGS CAN BE STOUDED (Classified) III	Can keep a careful record		male fertilises the female egg. Animals including	
		The state of the s	Use their evidence gathered		militariti ways according to their reatures.	of living things found in		humans have offspring which grow into adults. In	
		hours) before getting longer again.	to describe the general types		Classification keys can be used to identify and	different habitats		humans and some animals these offspring will be	
		The weather also changes with the	of weather and changes in day		marine niving tillings.	throughout the year		born live, such as babies or kittens, and then grow	Can present their
		seasons. In the UK, it is usually colder and	length over the seasons.			(diagrams, tally charts		into adults. In other animals, such as chickens or	understanding of the life
		rainier in Winter and hotter and dryer in	Use their evidence to describe		Living things live in a habitat which provides an	etc.)		snakes, there may be eggs laid that hatch to young	cycle of a range of animals
		the Summer. The change in weather causes	some other features of their		environment to which they are suited (year 2			which then grow to adults. Some young undergo a	in different ways e.g.
			surroundings, themselves,		learning). These environments may change			further change before becoming adults e.g.	drama, pictorially,









Teatholm Primary School	Science Curriculum Cycle A					
numbers of minibeasts found outside, seed and plant growth, leaves on trees and type of clothes worn by people. Key vocabulary Weather (sunny, rainy, windy, snowy etc.), seasons (Winter, Summer, Spring, Autumn), sun, sunrise, sunset, day length Applying (including enquiries) Collect information about the weather regularly throughout the year Present this information in table 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 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.	naturally e.g. through flooding, fire, earthquakes etc. Humans also cause the environment to change. This can be in a good way i.e. positive change. This can be in a good way i.e. positive change. This can be in a good way i.e. positive	caterpillars to butterflies. This is called a chronological reports, metamorphosis. creating a game Plants reproduce both sexually and asexually. Bulbs, Can identify patterns in life tubers, runners and plantlets are examples of cycles				
KS1	LKS2	UKS2				
Humans (year 1 National Curriculum Objectives) Objectives) Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals oidentify and name a variety of common animals that are carnivores, herbivores and omnivores Key Learning Humans have keys 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. Key vocabulary Can play and lead 'Simon says'. During PE lessons, can follow instructions involving parts of the body Can label parts of the body Can explore objects using different senses Can use first-hand close observations to make detailed drawings Can name body parts correct when talking about measurements and comparisons	enquiries) National Curriculum Objectives and plan investigations to meet gaps.	Spare half term to catch up. Check progress against Applying (including enquiries) National Curriculum Objectives and plan investigations to meet gaps.				









Parts of the body including those linked to 'My arm is x straws long.' 'My arm is x straws long and PSHE teaching (see joint document produced by the ASE and PSHE association) my leg is y straws long. My leg is longer than my arm.' Senses, touch, see, smell, taste, hear, 'We both have hands, but his fingers (skin), eyes, nose, ear and tongue NB. Although we often use our fingers and are bigger than mine." 'These people have brown hands to feel objects the children should eyes and these have blue.' understand that we can feel with many Can talk about their findings parts of our body from investigations using appropriate vocabulary Applying (including enquiries) 'My fingers are much better at Make first hand close observations of parts feeling than my toes' of the body e.g. hands, eyes 'We found that the crisps all Compare two people taste the same.' 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 (including foods grown in Garden School) can I identify by Which smells can I match?