

Science

Whole School

Termly Progression

Intent:

At Sandwich Infant School, our children are **SCIENTISTS!** Our **intent** is to give every child a broad and balanced Science curriculum which enables them to confidently explore and discover what is around them, so that they have a deeper understanding of the world we live in. We want our children to love science. We want them to have no limits to what their ambitions are and grow up wanting to be astronauts, forensic scientists, toxicologists or microbiologists. We want our children to remember their science lessons in our school, to cherish these memories and embrace the scientific opportunities they are presented with! To achieve this, it involves exciting, practical hands on experiences that encourage curiosity and questioning. Our aim is that these stimulating and challenging experiences help every child secure and extend their scientific knowledge and vocabulary, as well as promoting a love and thirst for learning. At Sandwich Infants, we have a coherently planned and sequenced curriculum which has been carefully designed and developed with the need of every child at the centre of what we do. We want to equip our children with not only the minimum statutory requirements of the science National Curriculum but to prepare them for the opportunities, responsibilities and experiences of later life.

Implementation:

At Sandwich Infant School, Science projects are taught within each year group in accordance with the National Curriculum.

- In KS1 Science is taught each week for 1 hour.
- Every year group will build upon the learning from prior year groups therefore developing depth of understanding and progression of skills and knowledge.
- Teachers promote enjoyment and foster interest of the scientific disciplines; Biology, Chemistry and Physics.
- Children explore, question, predict, plan, carry out investigations and observations as well as conclude their findings.
- Children present their findings and learning using science specific language, observations and diagrams.
- In order to support children in their ability to 'know more and remember more' there are regular opportunities to review the learning taken place in previous projects as well as previous lessons.

EYFS

The Early Years Foundation Stage Curriculum supports children's understanding of Science through the planning and teaching of 'Understanding the World.' Children find out about objects, materials and living things using all of their senses looking at similarities, differences, patterns and change. Both the environment and skilled practitioners foster curiosity and encourage explorative play, children are motivated to ask questions about why things happen and how things work. Our children are encouraged to use their natural environment around them to explore. Children enjoy spending time outdoors exploring mini-beasts and their habitats, observing the changing seasons, plants and animals. Children regularly participate in cookery and baking sessions which allows them to experience changes in state as ingredients are mixed, heated and cooled.

Impact:

The impact of this curriculum design will lead to outstanding progress over time, across key stages, relative to a child's individual starting point and their progression of skills and knowledge. Children will therefore be expected to leave Sandwich Infants reaching at least age related expectations for Science. Through various workshops, trips and interactions with experts our Science curriculum will lead pupils to be enthusiastic Science learners and understand that science has changed our lives and that it is vital to the world's future prosperity. We want to empower our children so they understand they have the capability to change the world. This is evidenced in a range of ways, including pupil voice, their work and their overwhelming enjoyment for science.

Knowledge+ Skills	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Reception	What type of weather is there?		What types of animal	Why is plastic bad for our	Why are trees	What is a wild animal?
·	Know the different types of weat	her: sunny, cloudy, rainy,	are there?	environment?	important?	Know that some
Substantive	windy and snowy.		Know that animals can	Know that items such as	Know that paper is	animals are wild.
Knowledge			be categorised: pets,	bottles, plates, bags etc	made from trees.	Can wild animals be
			farm animals, zoo	are made from plastic.	Know that it is bad to	good pets? Why not?
	What happens in Autumn?		animals.	Know that plastic is bad	chop down trees.	Know that these
	Know that leaves fall from the tre	ees in Autumn.	Know different pets:	for our environment.	Know that trees give	animals do not need
	Know that the leaves change cold	our.	cat, dog, rabbit, guinea	Where does our rubbish	us oxygen.	looking after. They are
	Know that conkers fall from conk	ers trees.	pig, hamster	go?	What are the	not sold as pets.
	Know that animals hibernate.		Know different farm	Know that our rubbish	different parts of a	What animals are
	Know that temperatures drop an	d it is colder.	animals: pigs, sheep,	ends up on a landfill.	tree?	wild?
			chickens, horse, goat	Know that we need to	Know what the names	Know that robins, blue
	What happens in Spring?		Know different zoo	protect our animals in the	of some parts of a tree	tits, seagulls,
	Know that plants and flowers sta	rt to grow.	animals: zebra, giraffe,	sea.	are.	blackbirds are all birds
	Know that baby lambs are born.		elephant, panda, lion,		How do leaves look	and are wild.
			monkey		different from each	Do these animals
	What happens in Summer?				other?	need looking after?
	Know that it is warm in Summer.		What can you see/		To know that leaves	Where do wild
	Know that we wear lighter clothe	s in Summer to keep us	hear/touch/taste/		have different patterns	animals live?
	cool.		smell?		and are different	Know that zoo animals
			Know we use our nose		shapes.	do not live in the wild,
	What happens in Winter?		to smell.		(Link to Greta	in the UK.
	Know that there are no leaves on	the trees in Winter.	Know we use our		Thunburg)	What animals are
	Know that it is cold in Winter and	that when it freezes, water	tongue to taste.			pets?
	turns to ice.		Know we use our eyes			Know that some
	Know there is often frost on the g	jround.	to see.			animals are pets.
			Know we use our			
			nanus and feet to			
			to beer			
			to hear.			

		Know that we need bees so flowers and food can grow. What is in our local wildlife? Know about local wildlife and how to care for them. Know that bees, dragonflies, ladybirds and ants can be found in our Summer garden. Why are bees important? Know that bees fly from flower to flower and make more grow.			
Disciplinary Knowledge (Skills)	Understand the effects of changing seasons on the natural world around them. Able to comment on the weather.	Able to join in with the RSPB Big Garden Birdwatch to learn about the local wildlife. Describes what they see, hear and feel whilst outside. Explores the natural world around them.	Explores the natural world around them.	Explore the natural world around them. Describes what they see, hear and feel whilst outside.	Explores the natural world around them.
Vocabulary	rainy, windy, sunny, snowy, cloudy.	Names of common birds and wildlife, the 5 senses, explore, find out about, observe.	plastic, environment, rubbish	tree, oxygen, leaves, flowers, branches, trunk	wild, pet

Year 1 Science						
	Term 1	<u>Term 2</u>	Term 3	Term 4	Term <u>5</u>	<u>Term 6</u>
Year 1	Seasonal Change	Everyday Materials	Animals including human	<u>S</u>	<u>Plants</u>	
Substantive	What are the 4 seasons?	What are everyday	What are the basic body p	arts?	What are the main parts	s of a plant and what is
Knowledge	To know that there are 4	materials?	To know the basic parts of	the human body i.e. arm,	the function of these pa	rts?
	seasons.	To know the names of a	leg, waist, ankle, knee, bac	k, head, feet, toes, wrist,	To know what a plant is.	
	To know the 12 months of the	variety of everyday	shoulder, elbow, thumb, te	eth.	(It is a living thing that us	sually grows from the
	year.	materials (wood, plastic,	What are our 5 senses?		ground).	
	To know that Spring is from	glass, rock).	To know the names of the	5 senses. (Touch, smell,	To know and identify the	main parts of a plant.
	March to May.	What is the difference	sight, hearing, taste).		(flower, roots, stem, leav	ves).
	To know that summer is from	between an object and	What are the sense organ	s?	To begin to know the fur	iction of the main parts
	June to August.	what it is made from?	To know and name the par	ts of the body associated	of a plant.	
	To know that Autumn is from	To know the difference	with each of the 5 senses.	(We smell using our nose.	To know what the roots a	are and describe these.
	September to November.	between	We taste using our tongue. We touch using parts of		(See vocab for more info)
	To know that Winter is from	an object and the material	our body, like our hands. We see using our eyes. We		How do plants change a	t different times of the
	December to February.	from which it is made.	hear using our ears).		year?	
	To know that Harvest time is in	To know what the word	To know what our senses o	0.	To know that on some pl	ants fruit or vegetables
	Autumn.	material means. (All	What is a carnivore?		start to grow.	
		objects have a name like	To know that a Carnivore is	s an animal that eats	(Links made with season	al Change unit)
	What changes happen in each	`a door'. Material is the	meat. (lions, eagles, croco	liles)	To know in autumn, the	eaves on deciduous
	of the seasons?	`stuff' an object is made	What is a herbivore?		trees usually change colo	our and fall off.
	To know that in Autumn	from)	To know that a herbivore is	an animal that only eats	To know that in winter, d	leciduous trees usually
	temperatures drop and it gets		plants. (cows, giraffes, eler	hants)	have no leaves on their b	ranches.
	darker earlier because there is	How can materials be	What is an omnivore?		To know that an evergree	en tree keeps its green
	less sunlight.	grouped or classified?	To know that an omnivore	is an animal that eats	leaves all year.	
	To know that skies can be	To know that you can put	plants and meat. (humans,	squirrels, robins)		
	overcast.	materials in to different	Do all animals have a bac	cbone?	What are the names of	common trees and
	To know that birds migrate to	groups by answering	To know what a backbone	is. (Backbone is the	flowers?	
	warmer climates in Autumn.	questions about the	column of small linked bones down the middle of		To know the names of so	ome common garden
	To know that in Autumn leaves	material. E.g. Hard or	your back).		plants. (Rose, poppy, lav	ender, sunflower, pansy)
	change colour and start to fall	soft? Stretchy or stiff?	To know that an animal wh	ich has a backbone is	To know the names of so	ome common wild
	from trees.	Shiny or dull? Rough or	called a vertebrate. (insect	s, arachnids, molluscs).	plants. (Nettle, daisy, clo	ver, buttercup, ivy,
	To know that in Autumn	smooth? Bendy or not	To know that an animal wi	hout a backbone is called	dandelion)	
	animals begin storing up food 🦳	bendy? Waterproof or not	an invertebrate.		How must we treat plan	its/trees?
	for the Winter.	waterproof? Absorbent or	What are the names of co	mmon animals?	To know that we mustn't	pick too many flowers.

To know that Winter is the	not absorbent?	To know and identify a variety of common animals.	What are the similarities and differences of
coldest time of the year.	Transparent or opaque?	(Pets, wild and farm animals)	trees?
To know that there are less and	To know how to compare	What are the 5 animal groups?	To know how the trunks of trees are similar and
less hours of daylight.	and group together a	What is the same about animals in each group?	different to each.
To know that we sometimes	variety of everyday	To know that there are 5 groups of vertebrates.	To know that you can identify a tree by
see snow, frost in the morning,	materials	(Mammal, fish, bird, amphibian, reptile).	observing the leaves.
sleet blizzards and hail.		To know some characteristics of each group. (See	
To know that water freezes to		below)	What are the parts of plants or trees?
ice.	What are different	Mammal	To know the basic structure of a variety of
To know that many plants stop	properties of materials?	• warm-blooded	common plants including roots, stem/trunk,
growing.	To know how to describe	• give birth to live young	leaves and flowers
To know that	the simple	 usually have hair or fur cannot breathe 	To know the functions of some of the parts.
some trees lose all their leaves.	physical properties of a	underwater	
To know some animals	variety of	Fish	
including hedgehogs and	everyday materials.	• cold blooded	
tortoises hibernate.		 have fins and scales 	
To know that in Spring, the		 breathe underwater using gills 	
temperatures rise and the		• lay eggs in water	
ground starts to warm up.		• cold-blooded	
To know that in Spring, flowers		<u>Bird</u>	
begin to grow.		• warm-blooded	
to know that Spring is		 have wings and beaks 	
associated with rebirth and		 have feathers 	
growth.		• lay eggs	
To know that some baby		Reptile	
animals are born (e.g. lambs,		• cold-blooded	
chicks).		• lay eggs	
To know that in Summer, it is		have scales	
the hottest time of the year.		 cannot breathe underwater 	
To know that in Summer, there		<u>Amphibian</u>	
is usually sunshine, generally		• cold-blooded	
dry weather but there may be		• lay eggs	
thunderstorms too!		 live on land and water 	
To know that in Summer,		 can breathe underwater through gills 	
flowers and trees are in bloom			
	ſ		

To know that there are different types of weather- rain, sun, storms, overcast.			
Disciplinary Knowledge (Skills) To be able to put the 12 months in order of the year. To be able to discuss what different types of weather are like. To use their senses to describe the different types of weather. To be able to classify clothing for different types of weather/climate. To be able to describe different types of weather. To be able to observe and measure the weather. To be able to observe and measure the weather. To be able to observe and measure rainfall over a period of time. To be able to observe and measure rainfall over time. To be able to observe and measure rainfall over time. To be able to observe and measure and record rainfall. To be able answer questions about what we have found out. To record in a simple chart or table. To be able to keep a simple class weather chart. *NB Seasonal change will also be ongoing throughout the year with observations/discussions	To identify a variety of everyday objects. To classify everyday materials. To identify and describe the simple physical properties of a variety of everyday materials using their senses. To ask simple questions and recognise that they can be answered in different ways. To be able to observe carefully, using simple equipment. To perform simple tests. To use their observations and ideas to suggest answers to questions. To gather and record data to help in answering questions. To know the different ways that we can find out about things in science. 1. Survey 2. Do a test 3. Classifying	To identify, draw and label the basic parts of the human body. To be able to observe closely using simple equipment i.e. a microscope. To carry out simple tests using our senses. i.e. feeling objects in a feely bag, smelling different crisp flavours, guessing the flavour of fruit pastilles by tasting. To research to find out how good the senses of other animals are e.g. how well badgers can smell, bats can hear or owls can see. To be able to record data in a table. To be able to describe and compare the structure of a variety of common animals. *(Possibility of bringing in a real pet) To be able to sort and group animals with some help. To be able to record data in simple ways (Venn diagram).	To be able to observe closely. To be able to ask simple questions and recognise that they can be answered in different ways. What plants can we see? How can we identify a plant? Which plant is the thinnest? Tallest? Etc. To gather questions as a class about what they want to know about plants in the local habitats. To recognise that there are a range of ways we can find out things in science. 1. Survey – count the number of things 2. Do a test - find out what happens to something when we change something about it 3. Classifying – put things into groups 4. Investigation over time – watch or measure something over time 5. Secondary source – use a book or internet *NB (These are displayed on posters in the KS1 classrooms and referred to in lessons as appropriate). To be able to choose the most appropriate method for a particular question. To be able to identify and describe flowers. To be able to use parts of the plant to identify and classify it. To measure the distance around a tree. To estimate how tall a tree is. To be able to describe and identify trees by looking observing their leaves. To be able to ask simple questions and recognise the ways in which they can be answered. E. a. do

	At the start of each season the children will decorate a tree in their science books to accompany the discussions/observations of how a tree changes throughout the seasons. Photograph the same tree in the school garden and observe the changes over time.	 4. Investigation over time 5. Secondary source (Posters displayed in KS1 classrooms) 		the weeds with the longest leaves have the longest roots?
Vocabulary	Seasons; spring, summer, autumn, winter Year, months, days Hot, warm, mild, cold Sunny Cloudy Rain, sleet, snow, hail, thunder, lightning, rainbow Wet, damp, dry Windy, breezy, gust Temperature Degrees Celsius Thermometer Weather vane Anemometer	Properties - A way to describe something Material - The 'stuff' an object is made out of Liquid - Liquids can flow or be poured easily Surface - An outside part or layer of something Object - A thing that can be seen and touched Types of materials: wood, plastic, glass, metal, water, rock, brick, fabric, sand, paper, flour, butter, milk, soil Properties of materials: hard/soft, stretchy/not stretchy, shiny/dull, Hard - Not easily broken Soft - Easy to cut, fold or change shape	Birds, fish, amphibians, reptiles, mammals Vertebrates and invertebrates Feathers, scales, gills, fins, hair, land, water, backbone, skeleton Carnivores, herbivores, omnivores Meat, plants Common parts/structures of animals Names of animals that can be found in the school grounds Names of animals that the children keep as pets	Function of parts of the plants. Flowers - look pretty and come in lots of different colours. They can also smell lovely. This helps to attract animals and insects that help the plant to make seeds for new plants. The leaf is very important. It absorbs the sunlight which it uses to make food for the plant. The stem helps support the plant and keeps it upright. Water and food are taken up from the roots and transported through the stem. The roots of a plant anchor the plant in the ground and without roots a plant would fall over. Roots also take in nutrients and water from the soil. Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine, holly, etc Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd's purse, sorrel, spear thistle, white campion, white deadnettle and yarrow.

	Stretchy - Can be made longer or wider without breaking Stiff - Doesn't change shape easily Shiny - Reflects light easily Dull - Not very bright or shiny Rough - Has an uneven surface Smooth - An even surface with n lumps or bumps Bendy - Can be bent easily Not bendy - Can't be bent easily Waterproof - Keeps out	Garden plants – crocus, daffodil, bluebells, etc Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs Habitat Flower - Part of a plant that attracts insects and birds Leaf - Part of a plant which absorbs sunlight which is used by the plant to make food Root - Part of a plant which takes in water and nutrients from the soil Stem Part of a plant which helps support it and keep it upright Seed - The part of a flowering plant that can grow into a new plant Absorb - To take in or swallow up Deciduous - A tree that sheds its leaves during autumn Evergreen - A tree that keeps its leaves all year
	Not bendy - Can't be bent easily Waterproof - Keeps out water Not waterproof - Lets water in Absorbent - Soaks up liquid easily Not absorbent - Doesn't soak up water easily Transparent - Able to see through it easily Opaque - Not able to see through Verbs associated with materials: crumble, squash_bend_stretch	Deciduous - A tree that sheds its leaves during autumn Evergreen - A tree that keeps its leaves all year round.
S	twist Senses: touch, see, hear, smell and taste	

Year 2 Science						
Knowledge+ Skills	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 2 <u>Substantive</u> <u>Knowledge</u>	Animals including humans What do offspring grow into? To know that animals have offspring that grow into adults. To know what the word 'off spring' means. To know and apply the scientific language to talk about what they have found out. To know what they have learnt following a visit and be able to share what they have learnt. What are the stages of a life cycle? To know the stages of a life cycle of an animal and put these in order using the knowledge they have gained. E.g. a chicken, frog, dragonfly, butterfly life cycles. To know the stages of human development and talk about how we change as we grow older.	Materials and their properties What are different types of materials? To know what objects are made from and name common materials. To know that for example a bottle is made from plastic, a jar is made from glass, etc. What is a solid? To know what the term solid means. To know that a solid has a definite shape that remains the same unless a force is acting upon it. How can materials be changed? To know that the shape of solid objects made from some materials can be changed by squashing, bending, twisting, etc. To describe changes that happened and how they have changed.	Living things and their h What is a living thing? To know what is a living t something that has never How do we know that a To know that plants are li What different habitats they like? To name different habitat area. To know what different h describe them. i.e. damp/ To know that most living habitat. To know that a habitat pr of animals and plants. To know why might happ in the wrong habitat. How do habitats change To know how habitats can To respond to questions s animal live in that habitat How do animals adapt to survive? To know that some anima their habitat i.e. some anima blend in their habitat.	abitats hing, non-living thing and been alive. plant is a living thing? ving things? are there and what are ts in our school and local abitats are like and dry/light/dark things are suited to their ovides for the basic needs en if an animal was placed ? n change during the year. such as why would an ? o their habitats in order to als adapt/change to suit mals are camouflaged to	Plants*Collect seeds in the AutSpring/Summer.What do seeds and bulkTo know what a bulb is aa seed.To know some plants thatTo know some plants thatTo know some plants thatTo know how seeds andplants.Where can plants grow?To know that seeds/bulbthings i.e. water (hydrop)wool, stones, etc.How can seeds be differTo know that there are dedTo know that plants needs light toWhat temperature do sTo know and apply the stalk about what they havTo know what seeds andhealthily.To know when bulbs showOct-Dec and before first	tumn to be used in os grow into? and how it is different to at grow from a bulb. at grow from a seed. bulbs grow into mature ? so can grow in different onically), soil, cotton rent? lifferent types of seeds. be sorted. survive? o grow? o grow? o grow? d water, light and a grow and stay healthy. cientific vocabulary to ve found out. I bulbs need to grow buld be planted. (Autumn frost)

		To know if the change can be changed back. (reversed) To know that different solid objects change in different ways. How can we find out things in science? To know the different ways that we can find out about things in science. 1. Survey 2. Do a test 3. Classifying 4. Investigation over time 5. Secondary source (Posters displayed in KS1 classrooms) To know and apply the scientific vocabulary to talk about what they have found out.	To know that the number of animals found in a habitat changes during the year. Discuss; time of day, times of the year, weather. To describe how different habitats, provide for the basic needs of different kinds of animals and plants, and how they depend on each other. What is a micro habitat? To know what a micro habitat is i.e. a spider web, leaves, To name different micro habitats i.e. To be able to identify and name a variety of plants and animals in their habitats, including micro- habitats. How can we find things out in science? To know the different ways that we can find out about things in science. 6. Survey 7. Do a test 8. Classifying 9. Investigation over time 10. Secondary source (Posters displayed in KS1 classrooms) To know and apply the scientific language to talk about what they have found out.	To know how bulbs should be planted. Do all seeds germinate in the same way? To know that seed growth takes place over time. What are the names of common trees? What trees grow in the school grounds or local area? To know the names of common trees. (Link to trees in the local area or school grounds) What are the basic parts of the plant? To know the basic structure of plants (see vocab for parts to teach) and that part of the plant is above the ground and part below the ground. What is the function of each part of the plant? To know the basic function of what each part does e.g. the roots anchor the plant to whatever it is growing on. (Build upon this from year 1 – further embedding this knowledge)
Disciplinary Knowledge (Skills)	To be able to record data (tally chart). To be able to record data (table). To be able to record data (flow diagram). To be able to use observations to suggest answers to questions. i.e. how many	To be able to distinguish between an object and the material from which it is made. To be able to identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock.	To show curiosity about the world we live in and ask questions about it. To be able to explore and compare the differences between things that are living, dead, and things that have never been alive. To visit different habitats in school and the local area e.g. Gazen salts, and describe what a habitat is like there, e.g. damp/dry, light/dark, warm/cold, etc.	To be able to observe and describe how seeds grow into mature plants. To be able to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. To be able to perform a simple test e.g. Do plants need light to grow? What type of temperature do plants need so that they can grow?

caterpillars? Do any occur on	To be able to identify and	To be able to describe how animals obtain their food	To be able to recognise that questions can be
more than one plant?	compare the suitability of	from plants and other animals, using the idea of a	answered in a range of ways.
To be able to perform a simple	a variety of everyday	simple food chain.	To be able to observe closely using simple
test.	materials, including wood,	To identify and name different sources of food.	equipment.
To be able to observe using	metal, plastic, glass, brick,	To be able to ask simple questions and recognise	To be able to sort objects using observable
simple equipment.	rock, paper and cardboard	that they can be answered in different ways.	features e.g. sort different types of seeds,
What stages	for particular uses.	To be able to observe closely.	making close observations.
To order the stages of an	To be able to find out how	To be able to gather and record data to help answer	To find different criteria for sorting the seeds
animals' life cycle.	the shapes of solid objects	a question i.e. How many different living things can	e.g. colour, shape, size, and texture.
To investigate the different	made from some	we find? What are different habitats like? Why	To be able to gather and record data to help in
stages of an animals' life cycle	materials can be changed	would an animal live in that habitat? (Links with Art	answering a question.
over time.	by squashing, bending,	– Make a diorama) Which caterpillar will survive?	To use their observations and ideas to suggest
To record their observations in	twisting and stretching.	Where is the most popular place for animals to live?	answers to questions.
a variety of ways i.e. a diary,	To be able to use their	To be able to record data in a tally chart i.e. to show	
pictures, photos, videos, etc.	observations and ideas to	which animals are found in the habitat.	*Opportunities for planting should be made
To ask questions to a visitor	suggest answers to	To be able to record data in a bar chart.	throughout the year i.e. bulbs in Autumn. This
about the stages of human	questions.	To be able to use observations to suggest answers	<mark>can be planned into your garden time or within</mark>
development. i.e. a new	To be able to gather and	to questions.	the classroom.
mother and her baby.	record data to help in	To be able to observe using a microscope/hand lens.	
To be able to find out about	answering questions.		
and describe the basic needs of	To be able to perform	*Recording over time – take the children outside to	
animals, including humans, for	simple tests i.e. how well	record the number of minibeasts found during	
survival (water, food and air).	do materials bounce?	different times of the year. Can they explain why the	
To know what a healthy	What are the uses of	numbers change?	
lifestyle is and talk about it.	wood? How flexible are		
To know the importance for	plastics?		
humans of eating the right	Which tights are the		
amounts of different types of	stretchiest? Which		
food.	material is best for letting		
(Links made in Year 2, Term 5-	light through? On which		
Food and Nutrition)	surface will the car travel		
To know the importance for	the furthest? How well can		
humans of exercise.	we change the shapes of		
To know the importance to	some solid objects?		
humans of hygiene.			

	To sort children's clothes from	To be able to use simple		
	different ages of children and	measurements to gather		
	discuss the changes.	data.		
	To order photos of children and	To be able to use simple		
	their families and discuss the	secondary sources to find		
	changes.	answers (non-statutory).		
	To draw the different stages of	To be able to talk about		
	human life.	what they have found out		
	To measure body parts of	and how they found it out.		
	different ages, using non-			
	standard units.			
	To investigate relationships			
	between the ages of children			
	and the size of body parts. i.e.			
	length of feet, handspan, etc.			
	To present findings in a table.			
	To classify which food make a			
	healthy diet.			
	To discuss the importance of a			
	of exercise.			
	To explore what happens to			
	your body when you exercise.			
	To investigate which exercise			
	make you puff the most.			
	To carry out a survey linked to			
	hygiene e.g. how often do we			
	wash ourselves?			
	To keep a tally for how many			
	times we complete daily tasks			
	e.g. brushing teeth, washing	S.		
	hands, having a bath, washing			
	nair, etc.			
Vocabulary	Offspring - The child of an	Types of materials:	Habitat, micro habitat	Flower - Part of a plant that attracts insects and
	animai	wood, plastic, glass,	Pond, meadow, log pile, woodland, river, lake,	Dirds.
	Life cycle - A series of changes	metal, water, rock,	Deach, Cliff	Petal - Petals are part of a flowering plant which
	that an animal or plant passes	brick, fabric, sand,	Organism – plant, animal	attract Insects such as dees.

smooth newt, common frog, toad Source - Where something comes from. Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs	through from the beginning of its life until deathDiet - The food and water that an animal needsExercise - A physical activity to keep your body fitDisease - Illness or sickness which affects people, animals or plantsHygiene - How clean something is (to stay healthy 	paper, flour, butter, milk, soil Properties of materials: hard/soft, stretchy/not stretchy, shiny/dull, rough/smooth, bendy/not bendy, transparent/not transparent, sticky/not sticky Verbs associated with materials: crumble, squash, bend, stretch, twist Senses: touch, see, hear, smell and taste	Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine , holly, etc Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd's purse, sorrel, spear thistle, white campion, white deadnettle and yarrow. Garden plants – crocus, daffodil, bluebells, etc Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs Invertebrates – snail, slug, woodlouse, spider, beetle, fly, etc Pond animals – pond skater, water slater, ramshorn snail, pond snail, leech, common frog, smooth newt, etc Habitat - The home of an animal or a plant. Micro habitat - A small part of the environment that supports a habitat, such as a fallen log in a forest. Carnivore - An animal that eats meat. Herbivore - An animal that only eats plants. Omnivore - An animal that eats all kinds of foods, including both meat and plants. Food chain - The order in which living things depend on each other for food. Characteristics - A special quality or appearance that makes an individual or a group different from others. Adaptation - A special skill which helps an animal to survive and do everything it needs to do. Source - Where something comes from.	Leaf - Part of a plant which absorbs sunlight which is used by the plant to make food. Root - Part of a plant which takes in water and nutrients from the soil. Stem - Part of a plant which helps support it and keep it upright. Seed - The part of a flowering plant that can grow into a new plant. Bulb - Bulbs are underground masses of food storage from which plants grow. Absorb - To take in or swallow up. Sunlight - Light from the sun is a form of energy which helps plants to grow. Germination - The stage of plant growth where the seeds begins to sprout. Sprout - When a plant sprouts, it grows new shoots. Seed dispersal – Seed dispersal is when the seeds move away from the plant. They can be moved by the wind or animals. Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine , holly, etc Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd's purse, sorrel, spear thistle, white campion, white deadnettle and yarrow. Garden plants – crocus, daffodil, bluebells, etc Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs
smooth newt, common frog, toad Stages of life –baby, toddler, child, teenager, adult	Names of some amphibians – smooth newt, common frog, toad Stages of life –baby, toddler, child, teenager, adult	SC.	everything it needs to do. Source - Where something comes from.	Garden plants – crocus, daffodil, bluebells, etc Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs Need of plants – water, light, heat, temperature.

Life processes – growth, nutrition (feeding), respiration (breathing is part of this) Foods – healthy, grow, strong, energy		
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