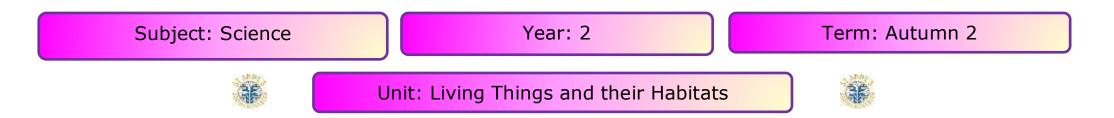
Subject: Science	Year: 2	Term: Autumn 1
- And	Unit: Uses of Everyday Materials	

Vocabulary	Knowledge	Understanding	Skills
	Children will know (that)	Children will understand (that)	Children will be able to
<ul> <li>material - anything that is used to make something else.</li> <li>object - something that can be seen and touched.</li> <li>property - the way in which a material is described.</li> <li>obstacle - something that blocks the way.</li> <li>construction - the process of building something.</li> <li>brick - a hard material that is used to build walls.</li> <li>suitable - is right for a purpose.</li> <li>property - the way in which a material is described.</li> </ul>	Objects around us are made up or constructed of different materials. properties of a variety of everyday materials. some materials are suitable or unsuitable for particular purposes. some materials are stronger than others. objects can be changed in different ways. some materials can be melted.	<ul> <li>what a material is.</li> <li>(why) some materials are suitable for specific uses.</li> <li>properties of materials that make them suitable or unsuitable for particular purposes.</li> <li>materials differ in strength and can be strengthened by changing their structure.</li> <li>the shapes of objects can be changed by twisting, bending, squashing or stretching.</li> </ul>	<ul> <li>Question Ask simple questions based on information they already have. Recognise questions can be answered in different ways Plan Simple test considering equipment that they will use, how they will carry out a test and how they will record the results. Make a prediction of the test of a test.</li></ul>

elastic - something that can pull	some materials can be melted to	perform simple tests selecting
apart without breaking; stretchy.	change their shape.	suitable resources to use
force - a pressure applied to		
something that makes it change	some materials can be melted and	Observe
shape or move.	mixed with other materials to	Compare the strength of different
bend - to shape or force something	change their properties.	materials.
into a curved shape.		
hinder - to hold back or stop		Compare how some objects change
something from moving forwards.		after stretching while other objects
floppy - to hang loosely.		return to their original form.
limit - to hold back or stop.		
twist - to bend or turn something		Compare how the shapes of objects
in opposite directions.		change when they are twisted,
stretch - to pull something apart		bent, squashed or stretched.
by its ends.		
squash - to push or press		Record
something until it is flat or flatter.		use their observations and ideas to
waterproof - to not let water pass		suggest answers to questions.
through.		gather and record data to help in
protective - to keep safe.		answering questions.
fluorescent - bright and very easy		5 1
to see.		Conclude
safety - being safe from danger.		Link the suitability of materials for
mackintosh - a waterproof		particular purposes with the uses of
raincoat.		everyday tools.
<b>bound</b> - the process of sticking		
materials together.		Evaluate
highway - a main road.		The types of materials they would
<b>road</b> - a pathway for cars.		use for a given task or activity.
merchant - someone who buys and		
sells goods.		
John McAdam - an inventor who		
changed how roads were built.		



Vocabulary	Knowledge	Understanding	Skills
	Children will know (that)	Children will understand (that)	Children will be able to
reproduce - to create young, offspring or babies excrete - to get rid of unwanted substances from the body	a variety of plants and animals in their habitats, including microhabitats.	differences between things that are living, dead, and things that have never been alive.	<b>Question</b> ask diverse questions to find out what animals eat and where they find their food.
<b>respire</b> - to breathe. <b>senses</b> - sight, hearing, touch, taste and smell.	(what) specific animals eat through research.	the 7 characteristics of living things.	ask simple questions and recognise that they can be
<b>nutrition</b> - eating food to enable living things to grow and be healthy.	different sources of food. (what) could affect a food chain.	living things depend on each other for survival.	answered in different ways. Observe
<b>nutrient</b> - part of food that helps living things live and grow. <b>habitat</b> - the natural place where	different foods that come from the same natural source.	all animals need to eat to survive. (how) animals obtain their food from plants and other animals,	identify and classify. observe closely, using simple equipment.
an living thing can survive <b>microhabitat</b> - a small natural area where a living thing can survive, found within larger	the difference between a habitat and a microhabitat.	using the idea of a simple food chain. (how) all animals and humans	describe what a food chain is. explain how foods have changed from their natural source
habitats.		relate to each other in a food chain.	

fungi - a group of living organisms		Record
which are classified in their own	food we eat comes from a natural	design a microhabitat where living
kingdom.	source.	things could survive
survive - to remain alive.		
shelter - something that covers or	living things need certain conditions	gather and record data to help in
protects.	to survive.	answering questions.
suitable - right for a particular		
purpose.		Conclude
<b>producer</b> - a plant at the start of a		explain why an animal may or may
food chain		not be suited to certain conditions.
consumer - a living thing that eats		
other living things.		use their observations and ideas to
<b>omnivore</b> - an animal that eats		suggest answers to questions.
both plants and meat.		
herbivore - an animal that only		Evaluate
eats plants.		
carnivore - an animal that only		
eats meat.		
<b>colony</b> - a group of things or		
people.		
<b>condition</b> - a particular state of		
being.		
<b>insect</b> - a small living thing that		
has 6 legs.		
<b>antennae</b> - are jointed and extend		
forward from the head.		
<b>caterpillar</b> - the wormlike larva of		
an insect and usually a butterfly or		
moth.		
life cycle - the sequence of		
changes that living things go		
through as they grow, reproduce		
and die.		
food chain - the order in which		
living things eat other living things.		
rot - decay.		
<b>frozen food</b> - food that is kept		
very cold so it does not perish.		
canned - food stored in a tin so		
that it does not perish so quickly.		

St Anne's C of E Primary School Curriculum Plan					
Subject: Science		Yea	ar: 2		Term: Spring 1
*	Unit: Living Things and their Habitats- Habitats around the World				
Vocabulary	Kr	nowledge	Understand	ding	Skills
	Childre	n will know (that)	Children will underst	and (that)	Children will be able to
organism - a living thing made up of one or more cells and able to carry on the activities of life. environment - the surroundings or conditions that a living organism (people, animals, plants) finds themselves in. habitat - a place where living organisms live. microhabitat - a small area which differs somehow from the surrounding habitat. rainforest - a forest in a tropical area that receives a lot of rain. endangered - animals or plants that may soon not exist because there are very few left alive. biodiversity - a variety of plant and animal life in a particular habitat or place.	<ul> <li>which they are</li> <li>which animal of habitats.</li> <li>a variety of p</li> <li>their habitats</li> <li>microhabitats</li> <li>how rainfores</li> <li>what you can habitat.</li> <li>about difference</li> <li>and Antarctic</li> </ul>	hings live in habitats to re suited. Is might live in a range lants and animals in tocean life. In tocean life.	environments are cons changing. living organisms are su in one or more habitats what animals are best in desert, underground habitats. why rainforests are imp how you can help redu impact humans have o an ocean habitat.	suited to live s. suited to live and ocean portant. ce the	Question ask simple questions and recognise that they can be answered in different ways. Plan investigate, measure and record soil habitats. Set-up plan a campaign to help protect a rainforest. Observe identify and classify. describe the Arctic and Antarctic climates. Record describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. gather and record data to help answer questions.

ocean - a very large area of sea;	Conclude	
they cover 70% of the world's	use their ob	servations and ideas to
surface.	suggest ans	wers to questions.
plankton - tiny plants and animals	compare res	sults and identify
which are eaten by other sea	species mor	e suited to living in
creatures.	damp soils.	_
coral reef - a ridge of rock in the	Evaluate	
sea which is home to many sea		
animals and plants.		
<b>trench</b> - a deep, narrow hole in the		
seabed.		
ecosystem - an area where		
animals and plants live, and where		
they rely on one another to		
survive.		
<b>desert</b> - an area, often covered		
with sand or rocks, where there is		
very little water and not many		
plants.		
Arctic - the northern polar region.		
Antarctic - the world's		
southernmost continent and the		
site of the South Pole.		
<b>caribou</b> - a large North American		
reindeer.		
<b>narwhal</b> - a small Arctic whale, the		
male of which has a long forward-		
pointing spirally twisted tusk.		
tundra - a treeless ecosystem		
found in the Arctic.		
<b>mate</b> - to come or bring together		
for breeding.		
<b>moisture</b> - liquid such as water in		
the form of very small drops, either		
in the air or in a substance		
extinct - no longer exists.		
climate - the general weather		
condition usually found in a		
particular place.		

pollution - waste that is disposed		
of into the environment		
<b>poaching</b> - hunting animals to		
sell.		



Vocabulary	Knowledge	Understanding	Skills
	Children will know (that)	Children will understand (that)	Children will be able to
<b>nutrition</b> - food that provides nourishment to live and grow	the basic needs of animals, including humans.	(explain) the basic needs of animals, including humans.	Question
healthy being well and fit.			Plan
		how animals adapt and survive by	
<b>nutrients</b> - substances in food that help to keep the body healthy.		ensuring their basic needs are met.	Set-up perform simple tests.
	what humans need to survive.	(explain) what humans need to	
<b>oxygen</b> - a gas found in the air that is needed for survival.		survive.	<b>Observe</b> identify and classify
	humans have basic needs and the	the difference between basic	Record
<b>survival</b> - to continue to live or exist.	things they want.	human needs and the things humans want.	sort food into the 5 food groups. Conclude use their observations and ideas to
<b>shelter</b> - a structure that gives protection from predators and weather.	the 5 food groups.	how and why the 5 food groups are important for human health.	suggest answers to questions. Evaluate
healthy - being well and fit.	examples of foods that form part of a healthy diet.	the importance of a balanced diet.	

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<b>non-essential</b> - not needed, can live without.		eating pre-cooked or processed food is not always a healthy choice.	
<b>survive</b> - to live or exist.	(how) exercise impacts human bodies.	exercising regularly is important for human health.	
vital - needed, cannot do without.		how regular exercise keeps humans healthy.	
grow - expand or get bigger.		good hygiene is needed to remain	
<b>protein</b> - a food group, consisting of meat, seafood, eggs, nuts and more, which help the body repair cells.	it is important for humans to have a good hygiene routine.	healthy. (how) to have a good hygiene routine. (how) a good hygiene routine can stop the spread of germs.	
<b>carbohydrate</b> - a food group, including rice, bread and pasta, which give the body energy.			
<b>dairy</b> - a food group, including cheese, milk and yoghurt, which contains calcium to keep our bones strong.			
<b>fat</b> - a food group that is important for energy but only needed in small amounts.			
<b>vitamins</b> - a natural substance found in fruits and vegetables which help our immune system and growth.			
<b>fresh food</b> - foods which have not been changed at all.			
<b>pre-cooked food</b> - foods that have been cooked ahead of time or cooked partially in advance of further cooking.			

<b>processed food</b> - foods that have been changed from their natural form.		
<b>balanced diet</b> - a diet which contains a variety of food types that help your body to be healthy.		
<b>exercise</b> - activity requiring physical effort, carried out to improve health and fitness.		
strength - being strong.		
<b>exercise</b> - activity requiring physical effort, carried out to improve health and fitness.		
<b>coordination</b> - being able to work different muscles and limbs at the same time		
flexibility - being able to bend easily without breaking.		
balance - keeping steady.		
<b>hygiene</b> - the things you can do to keep yourself and your surroundings clean.		
prevent - to stop.		
<b>germs</b> - bacteria and viruses that cause illness.		
<b>virus</b> - tiny organisms that cause disease in humans, animals and plants.		

St Anne's C of E Primary School Curriculum Plan				
Subject: Science	Year: 2	Term: Summer 1		
Unit: Animals, including humans- Life Cycles				

Vocabulary	Knowledge	Understanding	Skills
	Children will know (that)	Children will understand (that)	Children will be able to
<b>life cycle</b> - a diagram showing the changes in the life of a living thing.	animals, including humans, have offspring which grow into adults.	why some animals are more challenging to match.	<b>Question</b> ask simple questions and recognise that they can be answered in
<b>grow</b> - to become larger and develop.	and identify the stages of a human life cycle.	each stage of the human life cycle.	different ways. Plan predict the height of a chick.
<b>survive</b> - to continue to live.	features inherited from a parent.		Set-up
adult - a fully grown human. independent - not needing the support of others.	the different stages of a butterfly's life.	how a butterfly moves between the stages in its life cycle. the life cycle of a butterfly and the	<b>Observe</b> compare two stages of the human life cycle. compare the life cycle of a chicken
<b>helpless</b> - unable to take care of themselves.	the stages of a frog's life cycle.	how a frog moves between the	and human. match offspring with their parents. identify and classify.
<b>foetus</b> - a baby growing inside its mother's womb.		stages in its life cycle.	compare some similarities and differences between the life cycle of a frog and other animals.
<b>toddler</b> - a young child learning to walk.			Record draw the human life cycle. create a bar chart.

<ul> <li>womb - area of the mother's body where the foetus grows.</li> <li>reproduction - the process of producing offspring.</li> </ul>		gather and record data to help answering questions. <b>Conclude</b> use their observations and ide suggest answers to questions. <b>Evaluate</b>
offspring - the child, or young, of an animal or plant.		
differences - not being alike.		
resemble - to look similar.		
<b>gene</b> - causes a characteristic to be passed from parent to offspring.		
inherit - receive a parent's gene.		
transformation - a change in appearance or form.		
<b>metamorphosis</b> - the processes of insects, and some animals, developing into adult forms through a cycle of change.		
transformation - a change in appearance or form.		
<b>chrysalis</b> - a kind of vessel in which a caterpillar changes into a butterfly.		
<b>caterpillar</b> - the larva of a butterfly or moth, which has a segmented body resembling a worm.		

<b>larva</b> - offspring of certain animals that undergo great physical changes before they become adults.		
<b>frog</b> - a small animal that has smooth skin, lives in water and on land and has powerful back legs to jump.		
<b>froglet</b> - a young frog that has recently changed from being a tadpole.		
<b>frogspawn</b> -a group of frog's eggs.		
<b>tadpole</b> - a small creature with a large head and long tail which lives in water and grows into a frog or a toad.		
<b>amphibian</b> - an animal, such as a frog, that lives both on land and in water and produces eggs in water.		
chick - a young bird.		
<b>hatchling</b> - a young bird newly emerged from an egg.		
<b>bar chart</b> - a graph used to show data.		
predict - make a reasoned guess.		

Subject: Science	Year: 2	Term: Summer 2
	Unit: Plants	

Vocabulary	Knowledge	Understanding	Skills
	Children will know (that)	Children will understand (that)	Children will be able to
<ul> <li>germination - the process by which a plant grows from a seed.</li> <li>bulb - a plant bud that begins to grow underground.</li> <li>seed - a part of a plant from which a new plant can grow.</li> <li>plant - a living thing that uses sunlight to make their own food.</li> <li>seedling - a young plant grown from seed.</li> <li>carbon dioxide - plants use this to make their own food in a process called photosynthesis.</li> <li>photosynthesis - the process in which green plants use sunlight to make their own food.</li> <li>glucose - a sugar that plays a vital role in the metabolism of most living organisms.</li> <li>oxygen - one of the main gases that make up air.</li> </ul>	the difference between seeds and bulbs. (how) plants need water, light and a suitable temperature to grow and stay healthy. (how) a plant makes its own food through the process of photosynthesis. plants use carbon dioxide, sunlight and water to create glucose. plants according to their habitats. (what) conditions might be like for plants in their habitats.	plants need space, water, sunlight and a suitable temperature to grow. the life cycle of a plant. the requirements of plants for germination, growth and survival, as well as, the processes of reproduction and growth in plants. (how) plants adapt to suit their environment.	Question ask simple questions and recognise that they can be answered in different ways. Plan make a prediction. Set-up set up an experiment to find out what plants need to grow. set up a fair test. perform simple tests Observe observe and talk about seeds and bulbs. observe and describe how seeds and bulbs grow into mature plants. identify and classify. observe closely, using simple equipment. Record

energy - something which makes	explain the difference between a
things move.	bulb and a seed.
life cycle - a series of stages a	produce a diagram to explain the
living thing goes through during its	life cycle of a plant.
life.	explain why their plant did or did
pollination - the process that	not thrive using the control plant as
allows plants to reproduce.	a comparison.
reproduction - the creation of new	draw the inside of a seed and a
plants by one or more parent	bulb.
plants.	provide scientific explanations of
<b>crop</b> - a plant or plant product that	the life cycle of a plant.
is grown and harvested.	sort plants according to their
forest - places where there are	habitats.
mostly trees.	use observations and ideas to
<b>desert</b> - a dry place that receives	suggest answers to questions.
little or almost no rainfall.	record results.
survive - to remain alive.	compare the results to their
adapt - to change behaviour so	prediction.
that it is easier to live in a	gather and record data
particular place.	to help in answering
condition - a state of being.	questions
thrive - to do well.	Conclude
<b>insulate</b> - a material used to stop	write a simple conclusion
heat passing from one conductor to	Evaluate
another.	
manure - animal waste	
healthy - good for a living thing's	
health.	
compare - to look for things to see	
if they are similar or different.	
investigate - to observe closely	
through testing.	
predict - an act of saying what will	
or might happen.	
control - ability to keep within	
bounds.	
experiment - to test.	
method - a certain way of doing	
something.	