

School: Harlington Lower School

Curriculum Progression for: Science

Intent	To develop in all young people a lifelong curiosity and interest in the sciences.
	When planning for the science curriculum, we intend for children to have the opportunity, wherever possible, to learn through varied systematic enquiries, leading to them being equipped for life to ask and answer scientific questions about the world around them.
	As children progress through the year groups, they build on their skills in working scientifically, as well as on their scientific knowledge, as they develop greater independence in planning and carrying out fair and comparative tests to answer a range of scientific questions.
	The PlanIt Science scheme of work ensures that children have a varied, progressive and well-mapped-out science curriculum that provides the opportunity for progression across the full breadth of the science national curriculum for KS1 and KS2.
EYFS	Children should come to Year 1 with the following skills and knowledge.
	Communication and Language Listening, Attention and Understanding
	Make comments about what they have heard and ask questions to clarify their understanding.
	Personal, Social and Emotional Development Managing Self
	 Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.
	Understanding the World The Natural World
	• Explore the natural world around them, making observations and drawing pictures of animals and plants.
	• Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.
	Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.



Year 1						Julinici 2
Vocabulary	Autumn changes Weather (sunny, rainy, windy, snowy etc.) • Seasons (winter, summer, spring, autumn) • Sun, sunrise, sunset, day length Animals including <u>humans</u> Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves • Names of animals experienced first- hand from each vertebrate group • Parts of the body • Senses – touch, see, smell, taste, hear, fingers (skin), eyes, nose, ear and tongue	Animals including humans As in Autumn 1 Winter changes Weather (sunny, rainy, windy, snowy etc.) • Seasons (winter, summer, spring, autumn) • Sun, sunrise, sunset, day length	Materials 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	Spring changes Weather (sunny, rainy, windy, snowy etc.) • Seasons (winter, summer, spring, autumn) • Sun, sunrise, sunset, day length Plants Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud Names of trees in the local area Names of garden and wild flowering plants in the local area	Plants As in Spring 2 Summer changes Weather (sunny, rainy, windy, snowy etc.) • Seasons (winter, summer, spring, autumn) • Sun, sunrise, sunset, day length	Scientists and inventors Rainfall, rain, rain gauge, meteorologist, weather, Christopher Wren, Robert Hooke, Richard Towneley, George James Symons. Animals, veterinarian, vet's, poorly, medicine, pet, tail, claws, wing, whiskers, fins. Winter, ear muffs, Chester Greenwood, warm, material, properties. Biologist, Linda Brown Buck, smell, nose, sense, scent.
	herbivore, omnivore, carnivore					



	mammals, reptiles,						
	birds, fish,						
	amphibians						
Working	PLAN		·	•			
Scientifically	 ask simple questio 	ns					
Skills							
	DO						
	 observe closely, us 	sing simple equipment (r	magnifying glass, non-st	tandard units of measure)			
	 perform simple test 	sts in adult led groups					
	 identify, group and 	d classify by their feature	es				
	RECORD						
	 gather and record 	data to help answer que	estions				
	 verbally discuss ob 	servations and results					
	 write down results in basic written sentences 						
	REVIEW						
	 use their observat 	ions and ideas to sugges	t answers to questions				
Knowledge	Seasonal changes	Animals including in	Materials	Seasonal changes (on	<u>Plants</u>	Scientists and inventors	
	(on going topic)	<u>humans</u>		going topic)	As in Spring 2		
	In the UK, the day	As in Autumn 1	All objects are made	In the UK, the day		Verbally recall some facts	
	length is longest at		of one or more	length is longest at	<u>Seasonal changes (on</u>	about a range of different	
	mid-summer (about	Seasonal changes	materials.	mid-summer (about 16	going topic)	scientists and inventors.	
	16 hours) and	(on going topic)		hours) and	In the UK, the day length		
	gets shorter each	In the UK, the day	Some objects can be	gets shorter each day	is longest at mid-		
	day until mid-winter	length is longest at	made from different	until mid-winter	summer (about 16	Know there are many	
	(about 8 hours)	mid-summer (about	materials e.g.	(about 8 hours) before	hours) and	different types of scientists	
	before getting longer	16 hours) and	plastic, metal or	getting longer	gets shorter each day	performing different tasks.	
	again.	gets shorter each day	wooden spoons.	again.	until mid-winter (about		
		until mid-winter			8 hours) before getting	Understand the impact the	
	The weather also	(about 8 hours)	Materials can be	The weather also	longer	inventions and discoveries	
	changes with the	before getting longer	described by their	changes with the	again.	have had on our world.	
	seasons.	again.	properties e.g.	seasons.			
			shiny, stretchy,				
			rough etc.				



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In the UK, it is	The weather also		In the UK, it is usually	The weather also	
usually colder	changes with the	Some materials e.g.	colder	changes with the	
and rainier in winter,	seasons.	plastic can be in	and rainier in winter,	seasons.	
and hotter and dryer		different forms with	and hotter and dryer in		
in the summer.	In the UK, it is usually	very different	the summer.	In the UK, it is usually	
	colder	properties.		colder	
The change in	and rainier in winter,		The change in	and rainier in winter,	
weather causes	and hotter and dryer		weather causes many	and hotter and dryer in	
many other changes.	in the summer.		other changes.	the summer.	
Some examples are:	The change in		Some examples are:	The change in	
numbers of	weather causes many		numbers of	weather causes many	
minibeasts found	other changes.		minibeasts found	other changes.	
outside; seed and			outside; seed and		
plant growth; leaves	Some examples are:		plant growth; leaves	Some examples are:	
on trees; and type	numbers of		on trees; and type	numbers of	
of clothes worn by	minibeasts found		of clothes worn by	minibeasts found	
people.	outside; seed and		people.	outside; seed and plant	
	plant growth; leaves			growth; leaves on trees;	
Animals including	on trees; and type		<u>Plants</u>	and type	
humans	of clothes worn by			of clothes worn by	
Animals vary in	people.		Growing locally, there	people.	
many ways having			will be a vast array of		
different structures			plants which all have		
e.g. wings, tails, ears			specific names.		
etc. They also have					
different skin			These can be		
coverings e.g. scales,			identified by looking at		
feathers, hair. These			the key characteristics		
key features can be			of the plant.		
used to identify					
them.			Plants have common		
			parts, but they vary		
Animals eat certain			between the different		
things - some eat			types of plants.		



	other animals, some				
	eat plants, some			Some trees keep their	
	eat both plants and			leaves all year while	
	animals.			other trees drop their	
				leaves during autumn	
	Humans have key			and grow them again	
	parts in common,			during spring.	
	but these vary from				
	person to person.				
	Humans (and other				
	animals) find out				
	about the world				
	using their senses.				
	Liver and have fire				
	Humans have five				
	senses – signt,				
	couch, taste, nearing				
	and smenning. mese				
	particular parts of				
	the body				
Visit/Special		Village walk	Science week		Whinspade zoo trip
Occasions		Amage waik	Julie week		
Occasions					



Year 2						
Vocabulary	Animals including	The environment	<u>Materials</u>	Living things and their	<u>Plants</u>	Scientists and inventors
	humans Offspring, reproduction, growth, child, young/old stages (examples - chick/hen, baby/child/adult, caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (examples – meat, fish, vegetables, bread, rice, pasta)	Environment, climate change, atmosphere, greenhouse gases, drought, hurricanes, flooding, sea levels, sea ice, Earth, recycle, reduce, reuse, landfill, incineration, non- renewable resources, renewable resources, fossil fuels, coal, oil, gas, power, electricity, solar, wind, carbon dioxide, pollution, global warming, deforestation, endangered, extinct, water conservation, fresh water, salt water.	Names of materials – wood, metal, plastic, glass, brick, rock, paper, cardboard Properties of materials – as for Year 1 plus opaque, transparent and translucent, reflective, non- reflective, flexible, rigid Shape, push/pushing, pull/puling, twist/twisting, squash/squashing, bend/bending, stretch/stretching	habitatsLiving, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feedNames of local habitats e.g. pond, woodland etc.Names of micro- habitats e.g. under logs, in bushes etc.	light, shade, sun, warm, cool, water, grow, healthy <u>Plus year 1 vocab</u> Plants, leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud Names of trees in the local area Names of garden and wild flowering plants in the local area	Botanist, Jane Colden, plant, leaf, flower, stem, observe, illustrate, sketch. Doctor, Elizabeth Garrett Anderson, surgery, health, exercise, diet, hygiene clean Louis Pasteur, germs, handwashing, illness, disease, Charles MacIntosh, waterproof, fabric, properties,
Working Scientifically Skills	 PLAN ask simple questic understand they c DO observe closely, us perform simple te identify, group and 	ons an be answered in differ sing simple equipment (i sts in small groups some d classify by their feature	rent ways rulers, timers, magnifyin etimes with an adult es	ng glass)	I	I



	RECORD							
	 gather and record 	data in tables and graph	is to help answer quest	ions				
	 verbally discuss ob 	servations and results a	s a class					
	 write down results in written form to help answer questions 							
	REVIEW							
	 use their observat 	ions and ideas to sugges	t answers to questions					
Knowledge	Animals, including	Global warming is	All objects are made	All objects are either	Plants may grow from	Recall some facts about a		
	humans, have	caused by an	of one or more	living, dead or have	either seeds or bulbs.	range of different scientists		
	offspring which grow	increase of carbon	materials that are	never been alive.		and inventors.		
	into adults. In	dioxide in the earth's	chosen specifically		These then germinate			
	humans and some	atmosphere.	because they have	Living things are plants	and grow into seedlings	Understand how doctors use		
	animals, these		suitable properties	(including seeds) and	which then continue to	science to perform their		
	offspring will be	The increase in	for the task. For	animals.	grow into mature plants.	jobs.		
	young, such as	carbon dioxide has	example, a water					
	babies or kittens,	been caused by	bottle is made of	Dead things include	These mature plants	Germs are spread by		
	that grow into	humans.	plastic because it is	dead animals and	may have flowers which	touching and can lead to		
	adults.		transparent allowing	plants and parts of	then develop into seeds,	people becoming ill.		
		Humans have a	you to see the drink	plants and animals	berries, fruits etc.			
	In other animals,	responsibility to	inside and	that are no longer		There are many different		
	such as chickens or	reduce carbon	waterproof so that	attached e.g. leaves	Seeds and bulbs need to	types of scientists		
	insects, there may	dioxide.	it holds the water.	and twigs, shells, fur,	be planted outside at	performing different tasks.		
	be eggs laid that			hair and feathers (This	particular times of year			
	hatch to young or	Suggest ways to	When choosing	is a simplification, but	and they will germinate	Understand the impact the		
	other stages which	reduce, reuse and	what to make an	appropriate for Year 2	and grow at different	inventions and discoveries		
	then grow to adults.	recycle.	object from, the	children.)	rates.	have had on our world.		
			properties needed					
	The young of some	Know ways to reduce	are compared with	An object made of	Some plants are better			
	animals do not look	the use of fossil fuels.	the properties of	wood is classed as	suited to growing in full			
	like their parents e.g.		the possible	dead.	sun and some grow			
	tadpoles.	Understand what	materials, identified		better in partial or full			
		deforestation is and	through simple tests	Objects made of rock,	shade.			
	All animals, including	the impact it is	and classifying	metal and plastic have				
	humans, have the	having on animals	activities.	never been alive (again	Plants also need			
	basic needs of	and people living in		ignoring that plastics	different amounts of			



feeding, drinking and	this habitat and the	A material can be	are made of fossil	water and space to grow	
breathing that must	wider implications	suitable for different	fuels).	well and stay healthy.	
be satisfied in order	across the world.	purposes and an			
to survive.		object can be made	Animals and plants live		
	Understand that	of different	in a habitat to which		
To grow into healthy	water is precious and	materials.	they are suited, which		
adults, they also	needs conserving.		means that animals		
need the right		Objects made of	have suitable features		
amounts and types		some materials can	that help them move		
of food and exercise.		be changed in shape	and find food and		
		by bending,	plants have suitable		
Good hygiene is also		stretching,	features that help		
important in		squashing and	them to grow well.		
preventing		twisting. For	-		
infections and		example, clay can be	The habitat provides		
illnesses.		shaped by	the basic needs of the		
		squashing,	animals and plants –		
		stretching, rolling,	shelter, food and		
		pressing etc. This	water.		
		can be a property of			
		the material or	Within a habitat there		
		depend on how the	are different micro-		
		material has been	habitats e.g. in a		
		processed e.g.	woodland – in the leaf		
		thickness.	litter, on the bark of		
			trees, on the leaves.		
			These micro-habitats		
			have different		
			conditions e.g. light or		
			dark, damp or dry.		
			These conditions affect		
			which plants and		
			animals live there.		



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			The plants and animals in a habitat depend on each other for food and shelter etc.	
			The way that animals obtain their food from plants and other animals can be shown in a food chain.	
Visit/Special	Village walk	Science week		Whipsnade zoo trip
Occasions				



Year 3						
Vocabulary	Forces and magnets	Animals including	Rocks and soil	<u>Light</u>	<u>Plants</u>	Scientists and inventors
	Force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole	humans Nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, endoskeleton, exoskeleton, hydrostatic, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints, tendons,	Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil, fossil, marble, chalk, granite, sandstone, slate, soil, peat, sandy/chalk/clay soil, sedimentary, metamorphic, igneous,	Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous	Photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal (wind dispersal, animal dispersal, water dispersal, flower, stem, leaves, roots, soil, stamen, stigma, ovule, fertilisation	plant, grow, water, light, air, heat, requirements, explore, expedition, botanist. Marie Curie, radiation, element, chemistry, physics, x-ray, bones, support, protection, movement. Agriculture, crops, nutrients, soil, crop rotation, George Washington Carver. Core, seismology, earthquake, magma, molten, liquid, solid, Inge Lehmann.
Working Scientifically Skills	 PLAN Ask relevant quest Set up simple prace Set up a fair practi DO make systematic a take accurate mea use a range of equination RECORD gather, record, cla record findings usi REVIEW Write what I have 	tions and conduct enquin tical enquiries, compara cal enquiry guided by ar and careful observations isurements using standa ipment, including: tape ssify and present data in ing simple scientific lang	ries in a range of ways t ative and fair tests in sm n adult. rd units, measures, rulers, timer n a variety of ways to he uage, drawings, labelle	o answer them. all table groups or pairs. s, elp in answering questions d diagrams, keys, bar char	ts, and tables	



	Present what I have found to the class							
	Use the results I have	ave found to draw simpl	e conclusions.					
	Tell you what is directly a state of the	fferent, what has stayed	the same and what has	changed in an experimer	nt.			
	 Use the evidence f 	from my own and other	people's experiments to	o support what I have four	nd.			
Knowledge	A force is a push or a	Animals, unlike	Rock is a naturally	We see objects	Many plants, but not all,	Recall some facts about a		
	pull.	plants which can	occurring material.	because our eyes can	have roots,	range of different scientists		
		make their own food,		sense light.	stems/trunks, leaves and	and inventors like:		
	When an object	need to eat in order	There are different		flowers/blossom.			
	moves on a surface,	to get the nutrients	types of rock e.g.	Dark is the absence of		Plants can be introduced to		
	the texture of the	they need.	sandstone,	light.	The roots absorb water	new habitats as long as their		
	surface and the		limestone, slate etc.	-	and nutrients from the	requirements for growth are		
	object affect how it	Food contains a	which have different	We cannot see	soil and anchor the plant	met.		
	moves.	range of different	properties.	anything in complete	in place.			
	It may help the	nutrients –		darkness.		Marie Curie's work led to the		
	object to move	carbohydrates	Rocks can be hard		The stem transports	invention of x-ray machines.		
	better or it may	(including sugars),	or soft.	Some objects, for	water and			
	hinder its movement	protein, vitamins,		example, the sun, light	nutrients/minerals	George Washington Carver		
	e.g. ice skater	minerals,	They have different	bulbs and candles are	around the plant and	invented crop rotation to		
	compared to walking	fats, sugars, water –	sizes of grain or	sources of light.	holds the leaves and	improve crop yields.		
	on ice in normal	and fibre that are	crystal.	_	flowers up in the air to			
	shoes.	needed by the body		Objects are easier to	enhance photosynthesis,	Scientists come from all		
		to stay healthy.	They may absorb	see if there is more	pollination and seed	different backgrounds.		
	A magnet attracts		water.	light.	dispersal.	_		
	magnetic material.	A piece of food will		-		There are many different		
	Iron and nickel and	often provide a	Rocks can be	Some surfaces reflect	The leaves use sunlight	types scientists performing		
	other materials	range of nutrients.	different shapes and	light.	and water to produce	different tasks.		
	containing these,	-	sizes (stones,	-	the plant's food.			
	e.g. stainless steel,	Humans, and some	pebbles, boulders).	Objects		Scientific thinking can		
	are magnetic.	other animals, have		are easier to see when	Some plants produce	develop lead to new		
		skeletons and	Soils are made up of	there is less light if	flowers which	ideas/inventions/discoveries.		
	The strongest parts	muscles which help	pieces of ground	they are reflective.	enable the plant to			
	of a magnet are the	them move and	down rock which		reproduce.	Understand the impact the		
	poles. Magnets have	provide	may be mixed with	The light from the sun		inventions and discoveries		
	two poles		plant and animal	can damage our eyes		have had on our world.		



	 a north pole and a south pole. If two like poles, e.g. two north poles, are brought together they will push away from each other – repel. If two unlike poles, e.g. a north and south, are brought together they will pull together – attract. For some forces to act, there must be contact e.g. a hand opening a door, the wind pushing the trees. Some forces can act at a distance e.g. magnetism. The magnet does not need to touch the object that it attracts. 	protection and support.	material (organic matter). The type of rock, size of rock pieces and the amount of organic matter affect the property of the soil. Some rocks contain fossils. Fossils were formed millions of years ago. When plants and animals died, they fell to the seabed. They became covered and squashed by other material. Over time the dissolving animal and plant matter is replaced by minerals from the water.	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.	Pollen, which is produced by the male part of the flower, is transferred to the female part of other flowers (pollination). This forms seeds, sometimes contained in berries or fruits which are then dispersed in different ways. Different plants require different conditions for germination and growth.	
Visit/Special Occasions			Science week	Village walk		



Year 4							
Vocabulary	Animals including	Electricity	States of matter	Sound	Living things and their	Scientists and inventors	
	<u>humans</u>				<u>habitats</u>		
	Digestive system,	Electricity, electrical	Solid, liquid, gas,	Sound, source, vibrate,	Classification,	Sound, transmit, telephone,	
	digestion, mouth,	appliance/device,	state change,	vibration, travel, pitch	classification keys,	patent, speech, deaf,	
	teeth, saliva,	mains, plug, electrical	melting, freezing,	(high, low), volume,	environment, habitat,	Alexander Graham Bell,	
	oesophagus,	circuit, complete	melting point,	faint, loud, insulation	human impact, positive,		
	stomach, small	circuit, component,	boiling point,		negative, migrate,	Electricity, appliance,	
	intestine, nutrients,	cell, battery, positive,	evaporation,		hibernate	generate, power, Thomas	
	large intestine,	negative,	temperature,			Edison, Lewis Latimer,	
	rectum, anus, teeth,	connect/connections,	water cycle,			lightbulb, carbon filament.	
	incisor, canine,	loose connection,	precipitation,				
	molar, premolars,	short circuit,					
	herbivore, carnivore,	crocodile clip, bulb,					
	omnivore, producer,	switch, buzzer,					
	predator, prey, food	motor, conductor,					
	Criain	motal symbol					
Morking	DIAN	metal, symbol					
Scientifically	PLAN	ions and conduct enquir	ies in a range of ways t	o answer them			
Skills	 Ask relevant quest Independently or 	 ask relevant questions and conduct enquiries in a range of ways to answer them. Independently or in small groups use different types of anguiries to answer questions. 					
SKIIS	• Independently of its small groups use different types of enquines to answer questions.						
	DO						
	 make systematic a 	nd careful observations					
	 take accurate mea 	surements using standa	rd units,				
	 use a range of equipment, including thermometers, rulers, timers and data loggers 						
	RECORD						
	sather, record, classify and present data clearly in a variety of ways to help in answering questions						
	v record findings us	ing simple scientific lang	uage (with increasing c	onndence), drawings, labe	eneu diagrams, keys, bar cha	irts, and tables	
	REVIEW						
	Complete a writte	n report, display or pres	entation to report on fi	ndings with increasing use	of scientific language.		
	 Deliver an oral report on my findings. 						



	 use results to draw simple conclusions, make predictions for new values, 							
	use straightforward scientific evidence to answer questions or to support their findings							
	Evaluate the enquiry and suggest improvements and raise further questions							
	 identify differences, similarities or changes related to simple scientific ideas and processes 							
	• identity difference	s, similarities of changes	related to simple selen					
Knowledge	Food enters the	Many household	A solid keeps its	A sound produces	Living things can be	Recall some facts about a		
	body through the	devices and	shape and has a	vibrations which travel	grouped (classified) in	range of different scientists		
	mouth.	appliances run on	fixed volume.	through a medium	different ways according	and inventors like:		
		electricity.		from the source to our	to their features.			
	Digestion starts		A liquid has a fixed	ears.		Report on Alexander Graham		
	when the teeth start	Some plug in to the	volume but changes		Classification keys can	Bell's life and his invention of		
	to break the food	mains and others run	in shape to fit the	Different mediums	be used to identify and	the telephone.		
	down.	on batteries.	container. A liquid	such as solids, liquids	name living things.	-		
			can be poured and	and gases can carry		Explore the impact of		
	Saliva	An electrical circuit	keeps a level,	sound, but sound	Living things live in a	electrical inventions by		
	is added and the	consists of a cell or	horizontal surface.	cannot travel through	habitat which provides	inventors such as Thomas		
	tongue rolls the food	battery connected to		a vacuum	an environment to which	Edison and Lewis Latimer.		
	into a ball.	a component using	A gas fills all	(an area empty of	they are suited (Year 2			
		wires.	available space; it	matter).	learning).			
	The food is		has no fixed shape			Scientists come from all		
	swallowed and	If there is a break in	or volume.	The vibrations cause	These environments	different backgrounds.		
	passes down the	the circuit, a loose		parts of our body	may change naturally			
	oesophagus to the	connection or a short	Granular and	inside our ears to	e.g. through flooding,	There are many different		
	stomach. Here the	circuit, the	powdery solids like	vibrate, allowing us to	fire, earthquakes etc.	types scientists performing		
	food is broken down	component will not	sand can be	hear (sense) the		different tasks.		
	further by being	work.	confused with	sound.	Humans also cause			
	churned around and		liquids because they		the environment to	Scientific thinking can		
	other chemicals are	A switch can be	can be poured, but	The loudness (volume)	change. This can be in a	develop lead to new		
	added.	added to the circuit	when poured they	of the sound depends	good way (i.e. positive	ideas/inventions/discoveries.		
		to turn the	form a heap and	on the strength (size)	human impact, such as			
	The food passes into	component on and	they do not keep a	of vibrations which	setting up nature	Understand the impact the		
	the small intestine.	off.	level surface when	decreases as they	reserves) or in a bad way	inventions and discoveries		
	Here nutrients are		tipped.	travel through the	(i.e. negative human	have had on our world.		
	removed from the	Metals are good		medium. Therefore,	impact, such as littering).			
	food and leave the	conductors so they		sounds decrease in				



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digestive system to	can be used as wires	Each individual grain	volume as you move	These environments also	
be used elsewhere in	in a circuit.	demonstrates the	away from the	change with the	
the body.		properties of a solid.	source.	seasons; different living	
	Non-metallic solids			things can be found in a	
The rest of the food	are insulators except	Melting is a state	A sound insulator is a	habitat at different times	
then passes into the	for graphite (pencil	change from solid to	material which blocks	of the year.	
large intestine. Here	lead).	liquid.	sound effectively.		
the water is					
removed for use	Water, if not	Freezing is a state	Pitch is the highness or		
elsewhere in the	completely pure, also	change from liquid	lowness of a sound		
body.	conducts electricity	to solid.	and is affected by		
			features of objects		
What is left is then		The freezing point of	producing the		
stored in the rectum		water is 0oC.	sounds. For example,		
until it leaves the			smaller objects usually		
body through the		Boiling is a change	produce higher		
anus when you go to		of state from liquid	pitched sounds.		
the toilet.		to gas that happens			
		when a liquid is			
Humans have four		heated to a specific			
types of teeth:		temperature and			
incisors for cutting;		bubbles of the gas			
canines for tearing;		can be seen in the			
and molars and		liquid.			
premolars for					
grinding (chewing).		Water boils when it			
		is heated to 100oC.			
Living things can be					
classified as		Evaporation is the			
producers, predators		same state change			
and prey according		as boiling (liquid to			
to their place in the		gas), but it happens			
food chain.		slowly at lower			



	temperatures and		
	only at the surface		
	of the liquid.		
	Evaporation		
	happens more		
	quickly if 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.		
Visit/Special		Science week	Village walk	
Occasions				