

Redbourn Primary School Sequence of teaching overview in Science 2024 2025

	А	utumn Teri	m		Spring	Term		Summer To	erm
THRIVE VALUES	during experiments investigations Healthy – We healthy. We describe the healthy with health with healthy with healthy with healthy with healthy with health with healthy with healthy with healthy with healthy with health with healthy with healthy with healthy with healthy with health with healthy with healthy with healthy with healthy with health with healthy with healthy with healthy with healthy with health with healthy with healthy with health with health with healthy with health with he	impact of humans on our planet. We learn about the lifecycles of animals and plants and the challenges they face. Innovative – We understand science is at the forefront of innovation. We know about scientific innovators from the past.		Empathetic – We understand the world around us and how plants and animals gro		h other's theories, learn from each and the world and animals grow.			
	Materials/ Ex	gns of autum	things work/	of	state, push	water & it's changes es and pulls	Unit Outo		
	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary
Nursery	Use all their sense exploration of nat materials . Explore how thing Talk about the diff between materials changes they notice	ural s work erences s and	To include but not limited to; Same, different, shell, pebble, rock, magnifying glass, big, small, smooth, soft, hard, bendy, squishy, squash, ice, melt, cold, transparent, see through, wet, dry, sharp, freezing, rough, Push, cool, hot, elastic. Twig, bend magnet, attract, repel. Weather — wind, rain, sun, cold, hot, fog, snow, icy, frosty, damp.	Use all their sen hands-on explor natural material Explore collectic materials with si and/or different Talk about the dbetween materi changes they no Explore and talk different forces feel. (e.g. cogs a the wind.)	ention of s (e.g. ice). In s of imilar a properties. lifferences als and litice about they can	To include but not limited to; Same, different, shell, pebble, rock, magnifying glass, big, small, smooth, soft, hard, bendy, squishy, squash, ice, melt, cold, transparent, see through, wet, dry, sharp, freezing, rough, Push, cool, hot, elastic. Twig, bend magnet, attract, repel. Weather – wind, rain, sun, cold, hot, fog, snow, icy, frosty, damp. Sense, see, hear, smell, explore Natural, material, fabric explore, wind, twist, bulb, plant, living things melt, defrost,	plants. Underst features of the and an animal Understand the life cycle of a pl (sunflowers and Begin to unders respect and car	life cycle of a plant key features of the ant and an animal	Same, different, shell, pebble, rock, magnifying glass, big, small, smooth, soft, hard, bendy, squishy, squash, ice, melt, cold, transparent, see through, wet, dry, sharp, freezing, rough, Push, cool, hot, elastic. Twig, bend magnet, attract, repel. Weather – wind, rain, sun, cold, hot, fog, snow, icy, frosty, damp. Sense, see, hear, smell, explore, natural, fabric, explore, wind, twist, bulb, plant, living things, melt, defrost.



Cross-curricular	A2 PSHE Healthy 6	eating/hygiene	Sense, see, hear, smell, explore Natural, material, fabric explore, wind, twist, bulb, plant, living things melt defrost						
links		. U. 176.2.10							
	Unit outcome Me and my small world What's in my basket? Senses Let's go outside What's changed? Night and Day		Unit Outcome Changes in Winter Let it flow From desert to jungle Watch it grow Animal detectives Pushes and pulls			Unit Outcome Explore the natural world around them. Describe what they see, hear and feel whilst outside. Understand the effect of changing seasons on the natural world around them.			
	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary
Reception	Me and my small Explore the natural around them. Key Questions: What is this body What is this animal where does this a What's in my bas! Talk about the difficult between material changes they noti Key questions: What is this fruit/scalled? What do you notice which is the small fruit/vegetable? Senses	part? al? animal live? ket? ferences ls and ice. vegetable	Me and my small world animal farm horse pig cow sheep body head arms hands mouth teeth legs feet field sty barn stable coop What's in my basket? fruit vegetable size big little large small rough spiky smooth colour seed heavy light	Changes in Understand to f changing so the natural waround them Key Question What does his mean? What change notice in wind What do you wear in the ward to the ward of the ward to the ward about the differences be seen and the ward to	he effect easons on orld . s: bernate s do you ter? need to vinter?	Changes in Winter winter cold warm freeze frozen melt ice rainy sunny frosty snowy water leaves tree change hibernate hedgehog polar polar bear penguin fur Changes in Winter water wet dry flow float sink sand mud container pour fill full empty mix large	Describe what the feel outside. Explore the nathem. Natural process		To include but not limited to; Observe Same Different Weather- rain, sunny, windy, snowing/snow/fog/mist/cold/hot Plant, tree, flower, grow, seed, compost, earth, ground, animal, see, hear, feel, smell, sense, plant, herb, bulbs, flower, daffodil, tulip, crocus, lemon balm, mint, rosemary,



Explore the natural world	<u>Senses</u>	materials and changes	small tall wide	curry plant, Lavender,
around them.	smell touch see	they notice.	shallow deep heavy	hazelnut,
Key Questions:	hear taste nose	Key Questions:	From desert to	Sycamore, beech,
Where is your?	skin eyes ears	Which is the best	jungle	squirrel,
Which sense are you using to	mouth tongue			hedgehog, float,
	hands face	container to hold the	warm hot sandy	sink, shadow, light
What does it	head feel sound	mud/water?	sunny dry wet rainy	water, sink, float,
feel/smell/sound/taste/look like?	sight sense	Why?	jungle desert tiger	attract, repel push, pull
Let's go outside	Let's go outside mud grass	Do you think this will	zebra giraffe	
Explore the natural world	water ice tree	float or sink? Why?	monkey ostrich	
around them.	leaf sticky	Which container will	elephant lion snake	
Describe what they see, hear	rough smooth		•	
and feel whilst outside.	wet soft hard	the flow	camel frog lizard	
Understand the effect of	cold dry rainy	through?	scorpion	
changing seasons on the	cloudy sunny	What happens when		
natural world around them.	windy snowy	you add water to the		
Key Questions:	weather	?		
What changes do you notice?	autumn	From desert to jungle		
What did you use to	Let's go outside	Recognise some		
?	mud grass			
Why?	water ice tree	environments that are		
What does it feel/look/smell	leaf sticky	different from the one		
like?	rough smooth	in which they live.		
What is the same/different? What's changed?	wet soft hard cold dry rainy	Key Questions:		
Talk about the differences	cloudy sunny	What is this animal? •		
between materials and	windy snowy	Where does this		
changes they notice.	weather	animal live? • Is it a		
Key Questions:	autumn			
What has changed?	What's	hot or cold climate? •		
How has it changed?	changed?	What might you see in		
What is the same/different?	melt changed	the?		
What do you notice?	same different	Watch it grow		
Night and Day	hard soft runny	Animal detectives		
Understand the effect of	hot cold warm	Pushes and pulls		
changing seasons on the	burn mix wet	1 dones and pans		
natural world around them.	dry heat fire			
Key Questions:	cool			
What is a nocturnal animal?	Night and Day			
Which animals are nocturnal?	animal			



Cross-curricular	What can you see night/during the company the company that the company tha	n, sort and com	badger fox hedgehog bat stars moon sun night light day shadow torch daylight asleep awake evening morning dark pare						
links	1,2,3,4,5 Circles and triangl Shapes with 4 side								
	Unit outcome The Human Body Seasonal Changes (Autumn) Materials Seasonal Changes (Winter)		Unit Outcome Plants Animals Caring for our planet Seasonal changes (spring) Planting			Plants Planting Growing and co Seasonal chang		ome	
	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary
Year One	The Human Body Identify and name human body, Draw and label pa human body Identify, name, draw and label the of the human body and say which part of the body is associated with each sense Seasonal Changes Changes in autum Collect and record Observe changes is seasons	e parts of the rts of the e basic parts (Autumn) n	The Human Body hair, eyes, face, nose, ears, teeth, mouth, head, neck, arm, elbow, hand, leg, knee, foot light, dark, blind, hear, loud, quiet, noisy, sweet, salty, sour, bitter, savoury, skin, rough, smooth, hard, soft, smell, scent, sniff, stench	Plants Plant – winter Identify and nan of common wild and garden plan deciduous and evergreen trees Animals Identify and nan of common animal fish, amphibians, rep and mammals Identify and nan of common animal carnivores, herb	ne a variety ts, including ne a variety s including tiles, birds me a variety	Plants plant, flower, leaf, stem, roots, seeds, soil Animals animal, mammal, fur, wild mammal, pet, bird, wings, beak, feathers, webbed feet, flippers, tail, fins, scales, gills, amphibian, frog, toad, newt, reptile, lizard, crocodile, turtle, carnivore, sharp teeth, herbivore, plants, vegetable, fruit, omnivore Caring for our planet	Plants Name plant and Identify plants a local area, inclugarden plants a basic structure. Seasonal char Observe change seasons Observe and deassociated with how day length Planting - sui Observe change plants Growing and county of the planting and county of the planting and county of the plants	d tree parts. and trees in my uding wild and and describe their anges (summer) es across the 4 escribe weather a the seasons and a varies mmer es	Plants plant, flower, leaf, petals, stem, roots, branch, trunk, roots, wildflower, daisy, garden plant, sunflower, nettle, buttercup, dandelion, deciduous tree, horse chestnut, oak, sycamore, evergreen tree, pine, holly, needles, seed, soil, growth Seasonal changes — summer autumn, daylight, night, weather, season, rainfall, weather, rain gauge, winter, rainy,



Year Two	Animals' needs for survival	-	Plants (light and dark)	tcome	Plants (bulbs and seeds)	ille
	Unit outcome		Unit Out	trome	Unit Outco	ma
Cross-curricular links	PE – gymnastics (body parts). Maths – days of the week/ montl Maths – grouping classifying – charts	summer hs of the year	Maths – grouping classifying – bar chart, tally charts, pictogram, Venn diagram Maths – days of the week/ months of the year		Maths – days of the week/ i Maths – grouping classifying –	
	Observe and describe weather associated with the seasons and how day length varies	Seasonal Changes (Autumn) Shape autumn, winter, spring, summer daylight, night, weather, season, rainfall, weather, rain gauge Materials material, shiny, dull, rock, heavy, light, object, wood, metal, plastic, glass, wool, solid, liquid, melt, freeze, ice, float, sink, absorb, transparent, opaque Seasonal Changes (Winter) winter, rainy, snowy, windy, cloudy, frosty, sunny, spring	omnivores Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets) Caring for our planet Why is it important to care for our planet? How can we care for our planet? Seasonal changes (spring) Changes in spring Collect and record data Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies Planting Observe changes Plant – spring Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	Earth, helpful, harmful, recycle, reuse, crops, farmer, cook Seasonal changes (spring) autumn, winter, spring, summer daylight, night, weather, season, rainfall, weather, rain gauge Plant – spring As above	Seasonal changes – summer Changes in summer Collect and record data What are the main changes in each season?	snowy, windy, cloudy, frosty, sunny, spring, summer



Humans Materials Plastic			Living things and their habitats			Growing up Plants (bulbs and seeds) Growing up (small steps) Wildlife		
Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary
Animals' needs for Notice that animal humans, have off which grow into adults • Find out about a the basic needs or including humans (water, food and Humans) Describe the import humans of exercise eating the right and different types of hygiene Materials Identify and compsuitability of a vareveryday material wood, metal, plass brick, rock, paper and cardboard for uses Find out how the solid objects mad materials can be of squashing, bendir and stretching Plastic How is plastic helpharmful? How can we reduly waste in school?	als, including spring and describe f animals, s, for survival air) ortance for se, mounts of food, and oare the riety of ls, including stic, glass, r particular shapes of e from some changed by ng, twisting	Animals' needs for survival Humans shelter, heart, exercise, physical health, mental health, healthy diet, unhealthy diet, unhealthy diet, germs, hygiene, doctor, disease, plaque, gums, filling offspring, egg, parent, baby, child, teenager, life cycle, adolescent, frogspawn, tadpole, froglet, caterpillar, pupa, butterfly, insect, adult Materials natural material, human-made material, recycle, flexible, rigid, stone, pebble, brick, brittle, flexible, translucent, tough, lightweight,	Plants (light and Find out and desplants need wat a suitable temper grow and stay here) Living things and habitats Explore and condifferences between that are living, dead, that have never been lidentify that me things live in habitats they are suited and described and plants of animals and plants of animals and plants of animals and plants and anim habitats, including microhabitats	scribe how er, light and erature to ealthy d their spare the ween things and things and things owhich ribe how ts provide ifferent spare and each other ame a als in their	Plants (light and dark) sunlight, compost, herb, blossom, bulb, shoot Living things and their habitats Arctic plants, hibernate, habitat, cactus, desert, rainfall, ocean, seagrass, woodland, fern, moss, microhabitat, spider, snail, diet, food chain, living, dead, never alive		cribe how seeds not mature plants or mature plants to and a suitable grow and stay imals obtain plants and other ne idea of a n, and identify ent sources of tring mans ferent mammals whibians tterfly nes between the erent animals? deeds all steps)	Plants (bulbs and seeds) sunlight, compost, herb, blossom, bulb, shoot Growing up Life cycle Egg caterpillar pupa butterfly



			strong, breakable, waterproof <u>Plastic</u> single-use plastic, wildlife, nature, local						
Cross-curricular links	PSHE Healthy living – hygiene Maths – grou								
	Animals, including humans: Skeletons Movement Nutrition and diet Food waste Rocks Knowledge Skills Vocabulary		Unit Outcome Fossils Explore soil Light			Unit Outcome Plants Forces and Magnets Biodiversity			
	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary
Year Three	Animals, including huseletons Identify that humans other animals have stand muscles for supp protection and move Movement Joints How we move Nutrition and diet Identify that animals, humans, need the rig and amount of nutritithat they cannot mak own food; they get nufrom what they eat Food waste What is food waste? How can we reduce of waste? Rocks	and some keletons port, ment including the types ion, and ke their utrition.	Skeletons Movement skeleton, skull, ribcage, pelvis, femur, spine, antennae, exoskeleton, joint, hinge joint, ball and- socket joint, muscle, biceps, triceps, contract, relax Nutrition and diet carbohydrates, proteins, dairy products, fats, fruit and vegetables, balanced diet, balanced meal,	Fossils Explore fossils Fossil formation Soils Explore soil The importance of Plan – soil experi Investigate – soil experiment Evaluate – soil ex Light Recognise that the light in order to sand that dark is to flight Notice that light from surfaces Recognise that light from surfaces Recognise that light and that there are protect their eyes that shadows are	experiment they need see things the absence is reflected ght from angerous re ways to s Recognise	Fossils Fossilisation Rock skeleton Fossil Sediment Shell Explore soil Soil Sandy soil Clay soil Peat soil Chalky soil Organics matter Nutrients Habitat loss Deforestation Habitat Independent variables Dependant variables Controlled variables Filter paper Filter funnel	Plants Identify and descri of different parts o plants: roots, stem and flowers Explore the require for life and growth water, nutrients fre room to grow) and from plant to plant Investigate the war is transported with Explore the part th in the life cycle of f including pollination formation and seed Forces and Magne Compare how thin different surfaces Notice that some ficontact between 2	of flowering In flowering In flowering In flowering In flowers of plants In flowers of plants In flowers of plants In flowers of plants In the flowers of plants In flowering plants In flowering plants In flowering plants In flowers of plants In flowering plants In f	Plants water transportation, seedling, seed coating, germination, stamen, pistil, pollen, reproductive organs, pollination, pollinators, wind dispersal, animal dispersal, water dispersal, explosion dispersal, seed dispersal Forces and Magnets push, pull, force, contact force, friction, magnet, magnetic, poles, magnetic force, non- metal, iron, aluminium, steel, attract, repel Biodiversity Biodiversity Endangered Extinct



	Compare and group		nutrition, Eat	when the light fr	om a light	Measuring cylinder	magnetic force	s can act at a	Rewilding
	different kinds of ro	ocks on the	well Guide,	source is blocked	d by an	Absorb	distance		habitat
	basis of their appea		vegan diet,	opaque object		Conclusion	Observe how m	nagnets attract or	
	simple physical pro	perties	vegetarian diet,	Find patterns in	the way	evaluation	repel each other	er and attract some	
			omnivorous	that the size of s	hadows	Data	materials and r	ot others	
	Describe in simple t		diet,	change		<u>Light</u>		roup together a	
	fossils are formed w	vhen things	pescatarian diet			light sources, natural	variety of every	day materials on	
	that have lived are	trapped	Food Waste			light sources, artificial	the basis of wh	ether they are	
	within rock		Food waste			light sources, Sun,	attracted to a r	nagnet, and identify	
			Landfill Food			sunglasses, protect,	some magnetic		
	Recognise that soils	s are made	waste recycling			reflection, shadow	Describe magn	ets as having 2	
	from rocks and orga	anic matter	Edible				poles		
			Inedible				predict whethe	r 2 magnets will	
			<u>Rocks</u>				attract or repel	each other,	
			granite, pumice,				depending on v	vhich poles are	
			sandstone,				facing		
			chalk, marble,					supported objects	
			gneiss, crystals,					Earth because of	
			grains, layers,					vity acting between	
			texture,					he falling object	
			hardness,				Identify the eff		
			weathering,					er resistance and	
			fossil, shell,				friction, that ac	t between moving	
			fossilisation,				surfaces		
			sediment,					some mechanisms	
			sandy soil, clay				including levers	s, pulleys and gears	
			soil, peat soil,				allow a smaller	force to have a	
			chalky soil,				greater effect		
			organic matter,				<u>Biodiversity</u>		
			nutrients,				What is biodive	rsity?	
			deforestation,				How can we in	crease biodiversity	
			habitat loss				in our local are	a?	
	Uı	nit outcome	2		Unit Out	come		Unit Outco	me
	Grouping and classi	ifying living th	ings	Sound			Data Collection		
	Data Collection	, 0 0		Data Collection			Habitats		
Year Four	State of matter			Electricity			Deforestation		
real roul			Energy			The digestive system			
				Ü,			Food Chains		
	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary



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Grouping and classifying living	Grouping and	Sound	Sound	Data Collection	Data Collection
things	classifying	Identify how sounds are	vibration, sound,	Data collection	Bar chart
Group animals	living things	made, associating some of	volume, pitch, outer ear,	Analyse data	Pictogram
Vertebrates and invertebrates	Vertebrates	them with something	ear bones, cochlea, ear	Make conclusions	Data
Classification keys (animals)	invertebrates	vibrating	drum, ear canal, decibel,	Use straightforward scientific	Prediction
Group plants	exoskeleton	Recognise that vibrations	insulate, high-pitched,	evidence to answer questions or	<u>Habitats</u>
Classification key (plants)	Insects	from sounds travel through	low-pitched, background	to support their findings. Use	vertebrate,
Recognise that living things	soft-bodied	a medium to the ear	noise	results to draw simple conclusions.	invertebrate, soft
can be grouped in a variety of	invertebrate	Find patterns between the		Begin to identify differences,	bodied invertebrate,
ways	flowering plant	pitch of a sound and	Data Collection	similarities or changes related to	flowering plant, non-
Explore and use classification	non-flowering	features of the object that	Bar chart	simple ideas or processes.	flowering plant,
keys to help group, identify and	plant	produced it.	Pictogram	<u>Habitats</u>	seasonal changes,
name a variety of living things	stamen	Find patterns between the	Data	Recognise that environments can	natural resources,
in their local and wider	pistil	volume of a sound and the	Prediction	change and that this can	rewilding, nature
environment	Data Collection	strength of the vibrations	<u>Electricity</u>	sometimes pose dangers to living	reserve
Data Collection	Bar chart	that produced it	appliances, plug, socket,	things	<u>Deforestation</u>
Data collection	Pictogram	Recognise that sounds get	cell, electrocuted, circuit,	<u>Deforestation</u>	habitat
Analyse data	Data	fainter as the distance from	switch, battery, buzzer,	What is deforestation?	deforestation
Gather, record and classify	Prediction	the sound source increases	conductor, insulator	What are the impacts of	habitat destruction
data in a variety of ways to	State of matter	Data Collection	<u>Energy</u>	deforestation on habitats?	biodiversity
help in answering questions.	solid, liquid,	Data collection	Electricity	The digestive system	natural resource
Record findings using simple	gas, states of	Analyse data	Mains electricity	Describe the simple functions of	destruction, palm oil,
scientific language, drawings,	matter, pouring	Gather, record and classify	Battery –powered	the basic parts of the digestive	extinct
labelled diagrams, keys, bar	solid, oobleck,	data in a variety of ways to	Renewable energy	system in humans • Identify the	endangered
charts, and tables.	flow, freezing,	help in answering questions.	Non-renewable energy	different types of teeth in humans	sustainable
State of matter	melting, boiling,	Record findings using simple	Appliance	and their simple functions	The digestive system
Compare and group materials	condensation,	scientific language,	Earth	Food Chains	
together, according to whether	evaporation,	drawings, labelled diagrams,	Energy usage	Construct and interpret a variety	incisors, canines,
they are solids, liquids or gases	melting point,	keys, bar charts, and tables.		of food chains, identifying	premolars, molars,
Observe that some materials	water cycle,	<u>Electricity</u>		producers, predators and prey	enamel, root, decay,
change state when they are	precipitation,	Identify common appliances			digestive system,
heated or cooled, and measure	atmosphere,	that run on electricity			mouth, oesophagus,
or research the temperature at	petri dish	Construct a simple series			stomach, small
which this happens in degrees		electrical circuit, identifying			intestine, large
Celsius (°C)		and naming its basic parts,			intestine, rectum, saliva
Identify the part played by		including cells, wires, bulbs,			Food Chains
evaporation and condensation		switches and buzzers			producer, consumer,
in the water cycle and		Identify whether or not a			prey, predator, farming,
associate the rate of		lamp will light in a simple			overfishing, hunting
evaporation with temperature		series circuit, based on			

whether or not the lamp is



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								_	
				part of a comple	ete loop with				
				a battery					
				Recognise that a					
				opens and close					
				and associate th					
				whether or not					
				in a simple serie					
				Recognise some					
				conductors and					
				and associate m					
				being good cond	ductors				
				Energy					
				What is energy?					
				How can we red	uce our				
				energy usage?					
	U	nit outcome	е		Unit Out	tcome		Unit Outco	me
	Forces			Properties of ma	aterials		Reproduction A	A	
	Space			Animals including Humans			Reversible and	irreversible changes	
	Global Warming			Life Cycles			Plastic pollutio	n	
						Reproduction E	3		
	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary
	Forces		Forces	Properties of m	aterials	Properties of materials	Reproduction	Ā	Reproduction A/B
	Explain that unsupp	ported	frictional force,	Compare and gr	oup	electrical conductor,	Describe the lif	e process of	foetus, elderly adult,
	objects fall towards	s the Earth	motion, air	together everyd	ay materials	electrical insulator,	reproduction in	n some plants and	milestone, womb,
	because of the force	ce of gravity	resistance,	on the basis of t	heir	thermal insulator,	animals		period, reproduce,
	acting between the	Earth and	parachute,	properties, inclu	iding their	properties, lifespan,			hormone, puberty, life
	the falling object		surface area,	hardness, solubi	lity,	dissolve, soluble,	Reversible and	l irreversible	expectancy, gestation
Year Five	Identify the effects	of air	water	transparency, co	onductivity	insoluble, solution,	changes		period, gestation
	resistance, water re	esistance	resistance,	(electrical and the	nermal), and	mixture	Demonstrate t	hat dissolving,	line graph
	and friction, that ac	ct between	streamlined,	response to mag	gnets	Animals including	mixing and cha	inges of state are	prediction
	moving surfaces		non-contact	Know that some	materials	<u>Humans</u>	reversible char	nges • Explain that	Reversible and
	Recognise that som	ne	force, gravity,	will dissolve in li	quid to	foetus, elderly adult,	some changes	result in the	irreversible changes
	mechanisms includ	ing levers,	weight, lever,	form a solution,	and	milestone, womb,	formation of n	ew materials, and	properties, lifespan,
	pulleys and gears a		gear, pulley,	describe how to	recover a	period, reproduce,	that this kind o	of change is not	dissolve, soluble,
	smaller force to have		machine	substance from	a solution	hormone, puberty, life	usually reversil		insoluble, solution,
	effect	Ū	<u>Space</u>	Use knowledge	of solids,	expectancy, gestation		ated with burning	mixture, reversible
	Space		Solar System,	liquids and gase		period, gestation	and the action		changes, reverse,
	Describe the move	ment of the	orbit, Sun,	how mixtures m		Life Cycles	bicarbonate of	soda	chemical reaction,
	Earth and other pla		planets, Pluto,	separated, inclu		monotreme, mammary			irreversible change,
	relative to the sun i		celestial body,	through filtering	_	gland, metamorphosis,	Plastic pollution	o <u>n</u>	burning, heating,
	system • Describe t		gravity,	and evaporating		larva, chrysalis,			J. J.



	movement of the relative to the Eart the sun, Earth and approximately sph Use the idea of trotation to explain night and the apparamovement of the state of the sky Global Warming What are the imparament on living	th • Describe moon as perical bodies he Earth's a day and arent sun across	heliocentric model, geocentric model, rotate, axis, North Pole, South Pole, Earth, night, day, moon, gravitational force, satellite Global Warming global warming, greenhouse gases, fossil fuels, climate change, glacier, carbon footprint, plastic pollution, pollution, micro	Give reasons, baevidence from cand fair tests, for particular uses of materials, including wood and plastic Animals including Describe the chahumans develop Life Cycles Describe the diffication of the life cycles of an amphibian, and a bird	omparative r the f everyday ling metals, c ng Humans anges as to old age ferences in a mammal,	hatchling, nestling, fledgling, fertilisation, embryo, sperm cells, egg cells, sexual reproduction, anther, stigma, style, filament, ovary, ovule, clone, runner, tuber, asexual reproduction, cutting, parent plant	What are the impollution on the Reproduction B Findings – clone Interpret data	<u>.</u>	vinegar, bicarbonate of soda Plastic pollution global warming, greenhouse gases, fossil fuels, climate change, glacier, carbon footprint, plastic pollution, pollution, micro plastic
	L	Jnit outcome	plastic e	Unit Ou		come Unit Outcome		me	
	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary	Knowledge	Skills	Vocabulary
Year Six	Living things and to Describe how living classified into broad according to commobservable characteristic differences, included microorganisms, period animals. Give reasons for classified characteristic characteristic characteristic electricity.	ng things are and groups non teristics and ing lants and assifying s based on	Living things and their habitats organism, excretion, reproduction, mollusc, arachnid, classification, coniferous tree, microorganism, bacteria, virus,	Light Recognise that II in straight lines Use the idea that travels in straight explain that obje seen because th or reflect light in Explain that we because light tra light sources to from light source and then to our	t light It lines to ects are ey give out to the eye see things evels from our eyes or es to objects	Light retina, iris, pupil, lens, ray diagram, solar eclipse, refraction, medium, rainbow, prism, coloured filter, spectrum of light Light Pollution migration, glare, light pollution, light trespass, sky glow, urban, rural, light emission appliance	and are not ider parents Adaptations Identify how an are adapted to	at living things and of the same ally offspring vary antical to their imals and plants suit their different ways and	Variation variation, species, inheritance, desirable characteristics Adaptations polar habitat, desert habitat, adaptations, evolution, common ancestor, natural selection, finch, Galapagos Islands, decompose, Charles Darwin



Associate the brightness of a	fungi,	Use the idea that light	The circulatory system	Fossils	Fossils
lamp or the volume of a buzzer	characteristics	travels in straight lines to	circulatory system, blood	Recognise that living things have	palaeontologist, Mary
with the number and voltage	Carl Linnaeus	explain why shadows have	vessels, arteries, veins,	changed over time and that fossils	Anning
of cells used in the circuit	Electricity	the same shape as the	capillaries, red blood	provide information about living	
Compare and give reasons for	series circuit,	objects that cast them	cells, white blood cells,	things that inhabited the Earth	
variations in how components	voltage,	Light pollution	lungs, plasma, oxygen,	millions of years ago	
function, including the	current,	What is light pollution?	atria, ventricles, right	Themed Project	
brightness of bulbs, the	complete	How can we reduce light	atrium, left atrium, right		
loudness of buzzers and the	circuit,	pollution?	ventricle, left ventricle,		
on/off position of switches	incomplete	The circulatory system	oxygenated blood,		
Use recognised symbols when	circuit	Identify and name the main	deoxygenated blood		
representing a simple circuit in	<u>Renewable</u>	parts of the human	Diet, drugs and lifestyle		
a diagram	<u>energy</u>	circulatory system, and	drug, painkiller,		
Renewable energy	Renewable	describe the functions of	depressant, stimulant,		
What is renewable energy?	Non-renewable	the heart, blood vessels and	cigarette, tar, nicotine,		
Using renewable energy	solar power,	blood	vape, carbon monoxide,		
	wind power,	Diet, drugs and lifestyle	addiction, heart rate		
	solar panels,	Recognise the impact of			
	wind turbine,	diet, exercise, drugs and			
	migration,	lifestyle on the way their			
	global warming,	bodies function			
	greenhouse				
	gases				