



	Autumn	Spring	Summer	
	Seasonal changes and daily weather			
Year 1	Introduce Plants – (trees)	Everyday materials	Plants	
	Animals, including humans	Revisit 1: Animals, including humans	Revisit 2: Plants, Animals including humans	
	Living things and their habitats	Uses of everyday materials	Plants	
Year 2	Animals, including humans	Revisit Living things and their habitats / materials	Revisit Living things and their habitats / Animals, including humans	
	Rocks			
Year 3	Animals, including humans	Forces and magnets	Plants continued	
	Revisit Rocks	Plants	Light	
VeerA	Living things and their habitats	Animala including humana	Electricity	
Year 4	States of matter	Animals, including humans	Sound	

Year 5	Properties and changes of materials Animals, including humans	Forces (Gravity and Galileo) Earth in space	Living things and their habitats Forces continued
Year 6	Electricity	Animals including humans (water transport)	Living things and their habitats
Tear o	Animals including humans (circulatory system)	Light	Evolution and inheritance

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y1 Seasons and weather Day and night	Physics* The study of energy forces mechanics waves structure of atoms physical universe Earth in Space	Managing Self Manage their own basic hygiene and personal needs, including dressing, going to the toilet, and understanding the importance of healthy food choices. The Natural World Explore the natural world around them, making observations and drawing pictures of animals and plants. Explore the natural world around them, making observations and drawing pictures of animals and plants. Understanding some important processes and changes in the natural world around them, including seasons and changing states of matter.	Seasons and weather What are the four seasons? What's the weather like in Autumn, Winter, Spring and Summer? Day to night Why does day become night?	dawn dusk mild rotate soaked weather	month season spring summer autumn winter

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y1 Plants, including trees I INTRODUCE Year 1 Plants, including trees Structure of plants common and wild plants trees CUEPA	Biology The study of living things, including Common plants and trees in a local environment	Managing Self Manage their own basic hygiene and personal needs, including dressing, going to the toilet, and understanding the importance of healthy food choices. The Natural World Explore the natural world around them, making observations and drawing pictures of animals and plants. Explore the natural world around them, making observations and drawing pictures of animals and plants. Understanding some important processes and changes in the natural world around them, including seasons and changing states of matter.	Structure of plants What are the parts of a plant? Wild and common plants What are wild plants and where do you find them? What are garden plants and where do you find them? Trees What makes a tree? What types of tree are there? (Trees that live around my school) What's the difference between trees?	bud trunk branch bark seed wild	nutrients stem deciduous evergreen

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y1 Animals, including humans	Biology The study of living things, inclu ding Types of an mals Is Food anima ≘at Senses	Managing Self Manage their own basic hygiene and personal needs, including dressing, going to the toilet, and understanding the importance of healthy food choices. The Natural World Explore the natural world around them, making observations and drawing pictures of animals and plants. Explore the natural world around them, making observations and drawing pictures of animals and plants. Understanding some important processes and changes in the natural world around them, including seasons and changing states of matter.	Animals What is an animal? What types of animals are there? What is similar and what is different? Eating What does food tell us about an animal? Senses What makes me an animal? What senses do I have?	blood senses young feathers fur scales	mammal amphibian reptile herbivore carnivore omnivore

Year group, Unit Title and Name	؛ Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y1 Everyday materials	Chemistry* the study of the composition 1, behaviour a 1d properties of matter	 Managing Self Manage their own basic hygiene and personal needs, including dressing, going to the toilet, and understanding the importance of healthy food choices. The Natural World Explore the natural world around them, making observations and drawing pictures of animals and plants. Explore the natural world around them, making observations and drawing pictures of animals and plants. Understanding some important processes and changes in the natural world around them, including seasons and changing states of matter. 	Materials What are materials? What are things made of in school? Properties How can I describe materials? Which materials are waterproof and which are not? Which materials are transparent and which are opaque? Use what you know What's the best material for the job? Why?	absorb rough smooth waterproof metal plastic	materials properties flexible transparent opaque physical

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Y1 REVISIT Animals, including humans	Biology The study of living things, inclu ding Types of an mals Food anima s eat Senses we have	Y1 Animals including humans	Revisit and name it What features do animals have? Use the cues and single words in knowledge note to focus on vocabulary. Consolidate by talking and writing sentences on the page next to the knowledge note. Describe it Retrieve and complete labels on the knowledge organiser. What are the features of the animal group? Go further by writing sentences or drawing diagrams on the page next to it. Describe it Continue to describe the features of each animal group. Go further by writing sentences / draw diagrams on the page next to it. Sort it Compare animal groups – what do you notice is similar and what is different? Go further by writing sentences / draw diagrams on the page next to it.	blood senses young feathers fur scales	mammal amphibian reptile herbivore carnivore omnivore

Year group, Unit Title and Name	Substantve concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y1 SECOND REVISIT Plants and Animals, including humans	Biology The study of living things, inclu ding Types of an mals Food anima s eat Senses we have	Y1 Animals including humans	Remember it Animals, including humans Elaborate it Animals, including humans	blood senses young feathers fur scales	mammal amphibian reptile herbivore carnivore omnivore
Second Revisit Year 1 Plants and Animals, including humans	Common p ants and trees in a local environm ant	Y1 Plants	Remember it Plants	bud trunk branch bark seed wild	nutrients stem deciduous evergreen

Year group, Unit Title and Name	Substantve concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
		Managing Self Manage their own basic hygiene and personal needs, including dressing, going to the toilet, and understanding the importance of healthy food choices. The Natural World Explore the natural world around them, making observations and drawing pictures of animals and plants. Explore the natural world around them, making observations and drawing pictures of animals and plants.	Big Ideas/Key Questions/Learning Foci Structure of plants What are the parts of a plant? Wild and common plants What are wild plants and where do you find them? What are garden plants and where do you find them? Trees What makes a tree? What types of tree are there? (Trees that live around my school). What's the difference between trees?	Tier 2 Vocabulary bud trunk branch bark seed wild	Tier 3 Vocabulary nutrients stem deciduous evergreen
		processes and changes in the natural world around them, including seasons and changing states of matter.			

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y2 Living things and their habitats 	Biology The study of living things, including Characteristics of living things Relationship of living things and their environment.	EYFS – Natural Word Y1 Plants Y1 Animals including humans Y1 Revisit Animals, including humans Y1 Second revisit of Animals, including human and plants	Characteristics of living things What is alive and what is not? What do all living things have in common? Location of living things Where do plants and animals live? What plants and animals live in our local environment? How living things are connected What are food chains? How are they connected? Why do plants and animals need each other?	thrive depend producer consume prey predator	oxygen nutrition respiration sensitivity reproduction excretion

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Y2 Animals, including humans INTRODUCE Y2 Animals, including humans	Biology The study of living things, inclu ding Reproduc ion Basic ne ds Diet and ex for rcise huma ns	EYFS – Natural Word Y1 Plants Y1 Animals including humans Y1 Revisit Animals, including humans Y1 Second revisit of Animals, including human and plants	 Animals and change REMEMBER: what is an animal? How do animals change as they mature? Air, water and food How do we change as we mature? What do all animals need to stay alive? Health and food Keeping healthy: why do we exercise? Keeping healthy: why do we eat different types of food? 	healthy survive exercise heart lungs muscles	hygiene larva pupa vertebrates invertebrates metamorphosis

Y2 Chemistry* EYFS Natural world Materials artificial brittle ceramic	Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
materials the study of the Y1 Everyday materials compare wood, metal, plastic and glass. fabric inflexible	Use of everyday materials	l the study of the composition, behaviour and properties of matter		 What are materials used for? Categorise and compare wood, metal, plastic and glass. What are materials used for? Categorise and compare ceramics, rock, paper and card, and fabric. Changes What happens when we squash, bend, twist or stretch a material? Purpose What's the right material for the job? What's the most absorbent material? 	extracted fabric manufactured	durable inflexible reflective rigid

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y2 Revisit Living things and their habitats Use of everyday materials 	Biology The study of living things, including Characteristics of living things Relationship of living things and their environment	Y1 Animals, including humans Y1 Plants Y2 Living things and their habitats Y2 Uses of everyday materials	Materials What is it made from? Characteristics of living things Compare: what is alive, what is not alive and what has never been alive? Apply it What materials do our pets have or need? Why is that?	artificial brittle extracted fabric manufactured natural	ceramic durable inflexible reflective rigid translucent
REVISIT Year 2 Living things and their habitats Everyday materials	Chemistry* the study of the composition, behaviour properties of matter			thrive depend producer consume prey predator	oxygen nutrition respiration sensitivity reproduction excretion

Year group, Unit Title and Name	ibstantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
INTRODUCE V2 Plants	Biology he study of living things, including Growth Health lationship of living things and their environment	EYFS – Natural Word Y1 Plants Y1 Animals, including humans Y2 Living things and their habitats	Growing from a seed How do seeds germinate and what happens? Growing from a bulb What happens when bulbs sprout? Healthy plants What do plants need to thrive and be healthy? What can happen if plants don't get the things they need? What do I notice about plants around the school? How are they healthy? How are they unhealthy? Show what you know How do seeds and bulbs grow? What do plants need to be healthy?	wither dormant mature bulb anchor sustain	germination perennial carbon dioxide glucose clone

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y2 REVISIT Plants, and Animals, including humans	Biology The study of living things, including Growth Health Relationship of living things and their environment Reproduction Basic needs Diet and exercise for humans	EYFS – Natural Word Y1 Plants Y1 Animals, including humans Y2 Animals, including humans Y2 Living things and their habitats Y2 Revisit Living things and their habitats	EXPLAIN-IT How do seeds and bulbs grow? SUMMARISE-IT What do I know about animals, including humans? INTERLEAVING and EXPLAIN-IT What do plants need to thrive and be healthy?	wither dormant mature bulb anchor sustain healthy survive exercise heart lungs muscles	germination perennial carbon dioxide glucose clone hygiene larva pupa vertebrates invertebrates metamorphosis

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y3 Rocks	Chemistry* the study of the composition, behaviour and properties of matter	Y1 Everyday materials Y2 Use of everyday materials	Types How are rocks formed? What types of rocks are there? Change Can rocks change? How can we test a rock to see if it is limestone or chalk? Soil Is soil just dirt? What makes soil? Fossils How are fossils formed? Elaborate and remember rocks, soils and fossils.	cemented compacted decay prehistoric soil transform	fossil igneous magma metamorphic minerals sedimentary
	*Adapted from BBC Bitesize				

Year group, Unit Title and Name	Substantve concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y3 Animals, including humans 	Biology The study of living things, inclu ding	EYFS Natural world Y1 Animals, including humans	Food What effect does the food we eat have? Skeleton	minerals skeleton skull voluntary involuntary	biceps triceps vertebrae vitamins proteins
INTRODUCE Y3 Animals, including humans	Amount an type of nutrition Structure of and humans animals	Y2 Animals, including humans Y2 Living things and their habitats	Where is my skeleton and what does it do? Muscle Where are my muscles and what do they do?	nerves	carbohydrates

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y3 Revisit rocks	Chemistry* the study of the composition, behaviour and properties of matter	Y1 Everyday materials Y2 Use of everyday materials	Types How are rocks formed and what types are there? Change Remember: how can rocks change? Fossils Remember: how are fossils formed and how do we know?	cemented compacted decay prehistoric soil transform	fossil igneous magma metamorphic minerals sedimentary
	*Adapted from BBC Bitesize				

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y3 Forces and Magnets	Physics* The study of energy forces mechanics waves structure of atoms physical universe Earth in Space	Y1 Seasonal changes Y1 Everyday materials Y2 Uses of everyday materials	Contact force and friction What are contact forces? How do surfaces affect the motion of an object? How does friction affect moving objects? Non-contact force What is a non-contact force? How is this different to a contact force? Magnetic force How do magnets attract and repel? Which materials are magnetic? Forces and magnetism summary.	consequence contact force attract north south	magnet resistance friction repel pole magnetic field

Year group, Unit Title and Name	Substantve concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y3 Plants INTRODUCE Y3 Introduce Plants	Biology The study of living things, inclu ding Structure and functio ۱ Food and s rvival Life systems Reproduc _{:ion}	Y1 Plants Y1 Animals, including humans Y2 Living things and their habitats Y2 Plants	Flowering plants What are the parts of a flowering plant? What do they do? Food and survival Do all plants need the same things to thrive and grow? How do leaves make food for the plant? How does water move through a plant? Flower function What do flowers do? What is pollination?	adapt essential glucose transport variety vital	transpiration stoma pollination stamen pistil photosynthesis

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y3 Light NTRODUCE Y3 Light	Physics* The study of energy forces mechanics waves structure of atoms physical universe Earth in Space	Y1 Seasonal changes Y1 Everyday materials Y2 Uses of everyday materials Y3 Forces and magnets	Seeing Do we need light to see things? Shadows How are shadows formed? Changing variables What happens to the size of a shadow when the object moves closer to, or away from, the light source?	absence cast (shadow) impenetrable reflect shadow source (light)	constant dependent independent illuminate translucent variable

Year group, Unit Title and Name	Substantve concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y4 Living things and their habitats	Biology The study of living things, inclu ding ng Groupi on Classifica ntal nd Environm change a impact	Y1 Plants Y1 Animals, including humans Y2 Living things and their habitats Y2 Plants Y3 Plants	Living things What are the characteristics of living things? Vertebrates and invertebrates What animals are vertebrates? What animals are invertebrates? Plants What groups are plants classified in? Classification keys What is classification? How do I use a key? Environmental changes What happens if the environment in a habitat changes?	classification environment interdependence interact beneficial hierarchy	vertebrate invertebrate biotic ecosystem species niche

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y4 States of matter	Chemistry* the study of the composition, behaviour and properties of matter	Y1 Everyday materials Y2 Use of everyday materials Y3 Forces and magnets	What is matter? What does 'state' mean? What are solids, liquids and gases? Melting: how do materials change state? : how do materials change state? Condensing now do materials change state? Summary: how do materials change their state of matter?	permanent particle solid liquid gas vapour	evaporate condense melt matter state volume

Year group, Unit Title and Name	Substantve concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y4 Animals, including humans	BiologyIThe study ofIivingthings, incluStructurof digestvesystemFunctionof digestsystemRelationsfood cha	Y1 Plants Y1 Animals, including humans Y2 Living things and their habitats Y2 Plants Y3 Plants Y4 Living things and their habitats	Teeth and eating What teeth do humans have? What do they do? How does our mouth and teeth help digestion? What's the process? Can teeth tell us what animals eat? The digestive system What are the parts of the digestive system? What do they do? How does digestion work? What's the process? Food chains What are food chains How do they work? How do I construct and interpret a food chain? SUMMARY How are teeth, digestion and food chains connected?	expel compact digestion acid stomach intestines	incisor canine molar enzyme saliva peristalsis

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y4	Physics*	Y1 Seasonal changes	Sources of electricity	associate	component
Electricity			What appliances use electricity? What sort of	identify	electrical insulator
	The study of energy	Y1 Everyday materials	power makes them work?	portable effect	electrical
	forces			appliance series	conductor
	mechanics waves	Y2 Uses of everyday materials	Components		circuit hypothesis
898	structure of atoms physical universe	Y3 Forces and magnets	Name it - what are the components in a simple series circuit?		variable
INTRODUCE Y4 Electricity	Earth in Space		Apply what you know Diagnose it – what are the effects of changing circuit components and batteries?		

Year group, Unit Title and Name Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y4 Physics* Y1 Seasonal changes Sound The study of energy forces Y1 Everyday materials Image: Complex Service of atoms physical universe Y4 Sound Physics* Y2 Uses of everyday materials Image: Complex Service of the study of energy forces Y2 Uses of everyday materials Y3 Forces and magnets Y4 Sound Image: Complex Service of the study of energy forces Y3 Forces and magnets Y4 Electricity	Properties What is sound? Movement How does sound travel? Pitch and loudness What is the pitch and loudness of sound?	produce property source frequent regular affect	vibrate pitch volume medium vacuum sound wave

Year group, Unit Title	Substantiv :	Previous Learning	Big Ideas/Key Questions/Learning	Tier 2 Vocabulary	Tier 3 Vocabulary
and Name	concept		Foci		
Y5	Chemistry*	Y1 Everyday materials		property	atom molecule
Properties and			Properties, mixtures and solutions What	particle	chemical
changes of materials	the study of the	Y2 Uses of everyday materials	properties do materials have?	separate	(changes)
	compositio ۱,		How do we use them?	combine	physical
	behaviour	Y3 Rocks		recover	(changes)
\sim	properties	V2 Lickt	What is a mixture?	comparative	reversible
XOX	of matter	Y3 Light	What is a solution? (Solubility)		reaction
(\mathbf{X})		Y4 States of matter			
			Separation of materials		
INTRODUCE					
Y5 Properties and changes of materials			How can we separate materials from a		
CUSP1			mixture? (Sieving and filtration)		
			How can we separate materials from a		
			solution? (Evaporation)		
			Reversible and irreversible change		
			What changes are reversible?		
			What changes are irreversible?		

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y5 Animals, including humans 	Biology ≘ study of ng thin gs d an an ife cycle Change and growth	Y1 Animals, including humans Y2 Animals, including humans Y3 Animals, including humans Y4 Animals, including humans	Life What is the human timeline? Growth How do we change into adults? Compare How do human and animal lifespans compare?	development diverse unique generation mature equipped	adolescence puberty gestation embryo foetus womb

Year group, Unit Title and Name	Substant ve t concep	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y5 Forces	Physics Matter Forces a nd motion Sound, ligh : and waves Electricity and magneti m Earth in S	Y3 Forces and magnetism Y3 Light Y4 States of matter Y4 Electricity Y4 Sound	Non-contactandcontactforcesRemember gravity.When is friction helpful and when is itnot?ResistanceWhat is the effect of air resistance?Air resistance investigationInspirational scientistWho was Galileo Galilei?ResistanceWhat's the effect of water resistance?Levers, pulleys and gears How dolevers help us?How do pulleys and gears help us?	opposite reaction advantage displace weight mass	pulley gear pivot fulcrum lever upthrust

Year group, Unit Title	Substant ve t		Big Ideas/Key Questions/Learning	Tier 2 Vocabulary	Tier 3 Vocabulary
and Name	concep	Previous Learning	Foci		
Y5 Earth and Space	Physics Matter Forces a nd motion Sound, ligh ^t and waves Electricity and magneti m ace Earth in S	Y3 Forces and magnetism Y3 Light Y4 States of matter Y4 Electricity Y4 Sound Y5 Forces	 Position, relationship / movement of planets / spherical bodies. What are the planets in our solar system? (Planet comparison) How does the view of the Moon change in a solar month? (Moon phases, moon diaries) The effect of the Earth's rotation, tilt and orbit has on day, night and seasons. Why does the rotation of the Earth result in day and night? Why is the Earth's tilt (axis) responsible for the seasons? 	luminous phenomenon attraction approximately relative apparent	orbit axis crescent gravitational waxing waning

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
And Name Y5 Living things and their habitats I INTRODUCE Y5 Living things and their habitats CUSPL	Biology I study thliving Iding Structure Order fe cycles Productic	Y1 Plants Y2 Plants Y3 Plants Y3 Living things and their habitats Year 4 Living things and their habitats	Big ideas/Rey Questions/Learning Foci Mrs GREN – Recap of life processes Life Cycles What's the difference between a mammal and amphibian? What's the difference between an insect and a bird? What is similar and what is different between the life cycle of a mammal, amphibian, insect and bird? Inspirational scientists Who was Maria Merion and what did she do? Reproduction How do living things reproduce? Plants and animals – what's the life process of reproduction.	deduce process re-form transform adolescence contrast	embryo sexual metamorphosis incubate biochemical fertilisation

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y6 Electricity 	Physics Matter Forces and motion Sound, light and waves Electricity and magnetism	Y1 Everyday materials (chem) Y2 Uses of everyday materials (chem) Y3 Light Y4 States of matter Y4 Sound Y4 Electricity Y5 Forces Y5 Earth in Space	Do-itWhat is electricity? How does it work? Howdo we build and represent a series circuit?What are the components in a series circuit?Test-itHow does the number of cells and voltageaffect components in a circuit?Diagnose-itWhat are the effects and consequences ofchanging circuit components andbatteries?	Component Consequence Systematic Represent Source Generate	Proton Neutron Electron Terminal Series Voltage

Year group, Unit Title and Name	Substantivev concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
	Biology			Cell	Plasma

Y6 Introduce animals, including humans	 Jdy of things living icture tion of ind ulatory s the ealth a rstem exercise id	 Y1 Animals, including humans identify animals – mammal, reptile, bird, amphibian, fish Y2 Animals, including humans Reproduction and basic needs Y3 Animals, including humans Nutrition Structure of humans and animals Y4 Animals, including humans Human digestion Y5 Animals, including humans Lifespans and life cycles, growth and change 	 Blood and blood vessels What is blood made of and why do we need it? Why do our bodies need nutrients and how are they transported? What is our circulatory system? The functions of the heart What is our heart like inside? How does it work? Who influenced what we know about our circulatory system? The effect of exercise, drugs and lifestyle What can we do to keep healthy? Present and explain what we know about the circulatory system, nutrients and keeping healthy. Digestion and circulation Remember circulation and digestion: how are these two systems connected? Removal of waste Where are the kidneys and what do they 	Chamber System Circulation Vessel Clot Filter Expel Substance Function Regulate Transform	Platelet Artery Capillary Vein Ventricle Kidney Bladder Urine Excretion Toxin Nutrient
Y6 Animals, including humans:			are these two systems connected?		

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
And Name Y6 Light I	Physics Matter Forces and motion Sound, light and waves Electricity and magnetism Earth in Space	Previous Learning Y1 Everyday materials Y2 Uses of everyday materials Y3 Light Y4 States of matter Y4 Sound Y4 Electricity Y5 Forces	Big Ideas/Key Questions/Learning Foci Properties of light How does light travel? What colour is light made of? Reflection Reflection - how does light help us to see objects? Which surfaces make the best reflectors? Colour Why do we see objects as a particular colour? Refraction What happens to the appearance of objects	Impurity Emit Absorb Constituent Filter Artificial	Refraction Incidence Spectrum Prism Lux Piment
		Y5 Earth in Space	when placed in water?		

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y6	things, Biology		Pioneering scientists	Characteristic	Fungus
Living things and		Y1 Plants	Who was the scientist Carl Linnaeus and	Interdependence	Arthropod
their habitats	estudy living		what did he do?	Specific	Taxonomy
	includi	Y2 Plants		Categorise	Kingdom
			<u>Classification</u>	Primitive	Phylum
00	oneering	Y3 Plants	How do we classify vertebrates?	Hierarchy	Genus
Yoy	cientists		How do we classify invertebrates we		
CZ)	Classification	Y3 Living things and their	know?		
		habitats	How do we classify invertebrates we		
			don't know?		
INTRODUCE Y6 Living things and		Year 4 Living things and	How do we classify invertebrates we		
their habitats		their habitats	don't know?		
CUSPA					
		Y5 Living thing and their	Apply		
		habitats	What animals can I classify?		
			What animals and plants exist in my local		
			environment?		

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
Y6 Evolution and Inheritance	Biology study of living things Change Evolution Environment	Y3 Plants Y4 Living things and their habitats Y5 Living things and their habitats Y6 Living things and their habitats	Change over timeHow have living things changed over time?How do we know?How has life evolved over time?Biological changeWhat is DNA and what does it do? Are alloffspring identical to their parents?Theories of evolutionDarwin and Wallace – what evidence didthey share to argue the case for evolution?Survival of the fittest - how have animalsadapted and evolved to suit theirenvironment?	Characteristic Adaptation Acquire Theory Modify Generation	Evolve Survival Species Clone Inherit Fossil