

SCIENCE OVERVIEW

	AUTUMN 1	ic strand: <mark>Biology</mark> / <mark>Physics</mark> / <mark>C</mark> AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2			
			SPRING 1	SPRING 2	SUMMER	SUMMER 2			
EYFS	EYFS Statutory Framework: Understanding the World Early Learning Goal 15 - 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, 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 								
	Some further examples may include evidence of								
	Using the sense to explore								
	Explore how things work								
	 Plants seeds and care for growing plants Understand the life cycle of a plant and an animal 								
	Understand the life cycle of a plant and an animal								
	 Begin to learn about respect and care for the environment Talk about different forces e.g. push pull stretch 								
	 Talk about the differences between materials and changes they notice Recognise that some environments are different 								
	Recognise that some environm								
	Further detail outlined for EYFS can	be found in the DfE non-statutory qui	dance Development Matters documer	nt and the school's EYFS Skills and Pro	oaression document				
				cord, measure, predict, report, conclude,					
Why now?				ne world around them. Child initiated play		y to develop language is key.			
Next steps		out me – healthy habits, how to look afte							
				rstanding what carnivores, omnivores and	d herbivores are				
		Year 1- Plants – watch them grow and observe them, name parts of plants, name different plants, learn that some plants only grow at certain times of the year							
	Year 1 – Seasonal changes – observe changes, describe those changes, know which season we are in Year 1 – materials – properties, naming different materials, know their uses, explain why they are chosen, magnet function and use								
YEAR 1	Animals including humans –	Seasonal changes	Exploring everyday materials	Use of everyday materials	Plants	Animals including humans –			
National	about me					about animals			
Curriculum	 Identify/name a common animals(fish, amphibians, reptiles, 	 observe changes across the 4 seasons and describe weather 	 distinguish between an object and the material from which it is made 	 distinguish between an object and the material from which it is made 	 name plants (wild/garden) inc deciduous/evergreen trees & 	 Identify/name a common animals(fish, amphibians, reptiles 			
Objectives	birds and mammals- Mr Fab) &	associated with the seasons and	 identify/name a everyday 	 identify/name a everyday 	describe structures within	birds and mammals- Mr Fab) &			
	describe/compare their structures	how day length varies	materials, inc wood, plastic, glass,	materials, inc wood, plastic, glass,		describe/compare their structure			
	 Identify/name carnivores, 	, ,	metal, water, and rock& describe	metal, water, and rock& describe		Identify/name carnivores,			
	herbivores and omnivores		the simple physical properties of	the simple physical properties of		herbivores and omnivores			
	Name, draw basic human parts		them	them		Name, draw basic human parts			
	plus senses		compare and group everyday	compare and group everyday		plus senses			
			materials on the basis of their	materials using their simple physical properties					
Why now?	To support setting healthy habits	Opportunity to see seasonal	simple physical properties Must precede use of materials	Builds on foundation knowledge	Opportunity to grow plants and	Must go after about me topic at			
···· , ·····	as early as possible	changes across this term more	topic. They must explore them	of materials topic in spring 1	observe in finer weather	start of the year. Building a			
	Topic builds foundations for	evident	before using them	Supports the DT project		broader knowledge of animals			
	understanding a broader group of	 Supports knowledge for plants 	Supports DT projec			Accompanies the White Post			
	animals in summer 2	topic later in the year				Farm visit			
	 Children should be the most 								
	confident to discuss their own								
Previous	bodies and how they use them	EVEC (Understanding the world)	EVEC (Understanding the world)	EVEC (Understanding the world)	EVEC (Understending the world)	EVEC (Understanding the world'			
knowledge	EYFS 'Understanding the world'	EYFS 'Understanding the world'	• EYFS 'Understanding the world'	EYFS 'Understanding the world'	• EYFS 'Understanding the world'	• EYFS 'Understanding the world'			
Kilowicuge				 Year 1 exploring everyday material 					
Next Steps	Year 1 2 x animal including	Year 2 – living things and their	Year 1 use of everyday materials	Year 1 use of everyday materials	Year 2 Plants – growth and care	Year 2 animals including humans			
	humans topic (autumn 1 and	habitats x 2 topics	Year 2 everyday materials	Year 2 everyday materials	 Year 3 plants and life cycles 	– growth			
	summer 2)	• Year 2 - plants growth and care	• Year 3 – light / rocks / forces and	• Year 3 – light / rocks / forces and	Year 3 exploring the world of	• Year 3 animals inc – what makes			
	Year 2 animals including humans	Year 3 plants and life cycles	magnets (all discuss properties of	magnets (all discuss properties of	plants	us			
	– growth	Year 3 light	materials)	materials)	 Year 4 living things and their 	• Year 4 animals inc – food and			
	Year 3 animals inc – what makes	 Year 4 – living things nature and 	• Year 4 – states of matter / sound	Year 4 – states of matter / sound	habitat – classification / nature	digestion			
	US	environment	/electricity topics all support	/electricity topics all support	and the environment	• Year 5 – life cycles of humans			
	 Year 4 animals inc – food and diagetian 	• Year 5 – space	knowledge of materials	knowledge of materials	Year 5 studying living things	Year 6 – heart and health / blood			
	digestion	Year 6 light	Year 5 – properties of materials and changes in materials (2 x)	Year 5 – properties of materials and changes in materials (2 x	Year 6 living things and their	and transport in blood			
	 Year 5 – life cycles of humans Year 6 – heart and health / blood 		and changes in materials (2 x topic)	and changes in materials (2 x topic)	habitats (microorganisms)				
	Year 6 – heart and health / blood and transport in blood		Year 6 light / electricity both	Year 6 light / electricity both	• Year 6 evolution and inheritance				
			support materials	support materials					

YEAR 2	Animals including humans Diet and health	Living things and their habitats	Everyday materials	Living things and their habitats around the world	Animals including humans – growth	Plants – Growth and care
National Curriculum Objectives	 notice that animals, including humans, have offspring which grow into adults find out about and describe the basic needs of animals, including humans, for survival (water, food and air) describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene 	 Explore/compare living, dead, and things that have never been alive identify that most living things live in habitats to which they are suited - say how habitats meet basic needs of living things and how they depend on each other identify/name a variety of plants& animals in their habitats, including microhabitats describe how animals get food from plants & other animals -idea of a simple food chain, and identify/name sources of food 	 Identify & compare the suitability of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching 	 Explore/compare living, dead, and things that have never been alive identify that most living things live in habitats to which they are suited - say how habitats meet basic needs of living things and how they depend on each other identify/name a variety of plants & animals in their habitats, including microhabitats describe how animals get food from plants & other animals -idea of a simple food chain, and identify/name sources of food 	 notice that animals, including humans, have offspring which grow into adults find out about and describe the basic needs of animals, including humans, for survival (water, food and air) describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene 	 observe and describe how seeds/bulbs grow into mature plants find out and describe how plants need water, light and a suitable temperature to grow and stay healthy
Why now?	 To support setting good habits for the year Must precede animals inc humans' growth topic to support that understanding of life cycles 	 Observations of things in different life stages outside become more possible Must precede next topic to build foundations of knowledge 	Supplements the history topic (titanic) and later the DT project	 Most follow previous topic Living things and their habitats- builds on understanding of food chains Support the year group visit to Yorkshire Wildlife Park 	 Supports delivery of RSE lessons Needs latter stages of year 2 for maturity/understanding 	Opportunities to grow and observe plants in finer weather and build on earlier topic this year of habitats (an opportunity to put knowledge into practice)
Previous knowledge	• Year 1 2 x animal including humans topic (autumn 1 and summer 2)	 Year 1 -plants (care, varieties, label parts) Year 1 – seasonal changes 	Year 1 exploring and then using every day materials	 Year 1 -plants (care, varieties, label parts) Year 1 – seasonal changes 	 Year 1 animals inc humans – me and animals (2 x topic) Year 2 animals inc humans' diet and health 	 Year 1 seasonal changes Year 1 plants Year 2 2 x topic living things and habitats/habitats around the world
Next Steps	 Year 2 - animals including humans – growth Year 3 - animals inc – what makes us Year 4 - animals inc – food and digestion Year 5 – life cycles of humans Year 6 – heart and health / blood and transport in blood 	 Year 2 - Plants – growth and care Year 3 - plants and life cycles Year 3 - exploring the world of plants Year 4 - living things and their habitat – classification / nature and the environment Year 5 - studying living things Year 6- living things and their habitats (microorganisms) Year 6- evolution and inheritance 	 Year 3 – light / rocks / forces and magnets (all discuss properties of materials) Year 4 – states of matter / sound /electricity topics all support knowledge of materials Year 5 – properties of materials and changes in materials (2 x topic) Year 6 - light / electricity both support materials 	 Year 2 - Plants – growth and care Year 3 - plants and life cycles Year 3 - exploring the world of plants Year 4 - living things and their habitat – classification / nature and the environment Year 5 - studying living things Year 6 - living things and their habitats (microorganisms) Year 6 - evolution and inheritance 	 Year 3 - animals inc humans what makes us Year 4 – animals inc humans' food and digestion Year 5 – human life cycles / plant life cycles Year 6 – heart health/ blood and transport (x topics) Year 6 evolution and inheritance 	 Year 3 – plants and life cycles Year 3 – exploring the world of plants Year 4 – living things and their habitats – classification and environment Year 5 – studying living things Year 6 – living things and their habitats (micro-organisms)
YEAR 3	Light	Rocks	Forces and magnets	Plants and life cycles	Exploring the world of plants	Animals including humans – what makes us
National Curriculum Objectives	 recognise we need light to see things dark is the absence of light notice that light is reflected recognise sun light can be dangerous and that there are ways to protect their eyes recognise that shadows = light source is blocked by opaque objects find patterns in the way that the size of shadows change 	 Compare/group rocks by their look and simple physical properties describe in simple terms how fossils are formed (lived & trapped in rocks) recognise that soils are made from rocks and organic matter 	 compare how things move on different surfaces notice that some forces need contact between 2 objects, but magnetic forces can act at a distance observe how magnets attract or repel each other and attract some materials and not others compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials describe magnets as having 2 poles predict whether 2 magnets will attract or repel each other, depending on which poles are facing 	 Identify/describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers explore the needs of plants (air, light, water, nutrients from soil, and room to grow) and how this varies investigate water transportation in plants explore the part that flowers play: pollination, seed formation & seed dispersal 	 Identify/describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers explore the needs of plants (air, light, water, nutrients from soil, and room to grow) and how this varies investigate water transportation in plants explore the part that flowers play: pollination, seed formation & seed dispersal 	 Animals inc humans need: right types & amount of nutrition, cannot make their food; nutrition comes from what they eat humans and some animals have skeletons and muscles: support, protection and movement
Why now?	 Weather permits better investigations of light and shadows and allows outdoor science to take place Observations of light changes during this term will be possible Avoids same use time of equipment of year 6 	 Supports history and English topics to be explored next half term (preparation work) which develops vocab etc Must be taught before forces and magnets – where rock knowledge will be required to support understanding of magnets, friction etc 	Develops on ideas taught about rocks	 Weather permits the beginning of observing and growing plants around school and inside classroom Supports understanding of the next topic – exploring plants 	Develops further on understanding of plant life cycles	A more technical and challenging study of muscles, ligaments and skeleton so left until the end of year for maturation of pupils

Previous knowledge Next Steps	 Year 1 – seasonal changes Year 1 – use of everyday materials (reflective surfaces) Year 5 – materials grouping 	 Year 2 - identify and compare materials Year 1 - materials – distinguish what they are made of and group according to features Year 3 - forces and magnets 	 Year 2 – materials (squishing and bending materials) Year 4 - electricity 	 Year 1 - seasonal changes Year 1 - plants Year 2 - 2 x topic living things and habitats/habitats around the world Year 3 - exploring the world of 	 Year 1 - seasonal changes Year 1 - plants Year 2 - 2 x topic living things and habitats/habitats around the world Year 3 - plants and life cycles Year 4 - living things and their 	 Year 2 – animals inc humans diet and health Year 2 - animals inc humans growth Year 1 – (parts of the body, changes, importance of looking after yourself) Year 4 - animals inc food and
	 according to properties Year 5 - space Year 6 - light KS3 - waves (human eye, light waves) 	 Year 4 - states of matter (solids, liquids, gases, condense/evaporate, weathering. Year 5 - earth and space (big bang theory characteristics of different planets) Year 5 forces (sinking and floating, gravity and resistance) 	 Year 5 - earth and space Year 5 - forces Year 6 - electricity 	 plants Year 4 – living things and their habitats – classification and environment Year 5 – studying living things Year 6 – living things and their habitats (micro-organisms) 	 habitats – classification and environment Year 5 – studying living things Year 6 – living things and their habitats (micro-organisms) 	 digestion Year 5 – plants and human life cycle Year 6 – living things (organism reproduction -fungus/mould) Year 6 – animals including humans blood and transportation (nutrients and water in blood along with waste products)
YEAR 4	Animals including humans – food and digestion	Living things and their habitat – nature and the environment	Classifying living things and their habitats	States of matter	Sound	Electricity
National Curriculum Objectives	 describe the simple functions of the basic parts of the digestive system in humans identify types of teeth in humans and their simple functions construct and interpret a variety of food chains, identifying producers, predators and prey 	 living things can be grouped in diff ways explore/use classification keys to help group, environments can change and this can be dangerous to living things 	 living things can be grouped in diff ways explore/use classification keys to help group, environments can change and this can be dangerous to living things 	 compare and group materials: solids, liquids or gases some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) identify the parts played by evaporation, condensation in the water cycle the rate of evaporation determined by temperature 	 identify how sounds are made, associating some of them with something vibrating and that vibrations from sounds travel through a medium to the ear find patterns between the pitch of a sound and features of the object that produced it find patterns between the volume of a sound and the strength of the vibrations that produced it recognise that sounds get fainter as the distance from the sound source increases 	 Name appliances that run on electricity construct a simple series electrical circuit: name parts: cells, wires, bulbs, switches and buzzers Bulbs work in a closed circuit A switch can determine if bulb lights recognise some common conductors and insulators, and associate metals with being good conductors
Why now?	• Works with history topic Egyptians (Spring 1). Gaining knowledge before hand is key to supporting their learning. Will support healthy habits at school/home.	 Must precede classifying topic for year 4 Weather should permit for work outside using/recording water Changes in ecosystems may be observed as weather changes quickly in this term 	 Must follow the understanding of habitats taught in previous topic in year 4 	 Must be learned before sound and electricity as it supports the content in that topic Conceptually required for next two topics Will support DT project kites 	 Must be preceded by states of matter topic Builds on knowledge of previous topic Conceptually more difficult so must be in latter part of the year 	 Avoids year 6 using equipment at same time Builds on understanding learned in previous two topics (sound and states of matter)
Previous knowledge	 Year 3 – Animals inc humans (nutrition and keeping healthy) Year 2 - animals inc humans – growth, diet and health Year 1 – (parts of the body, changes, importance of looking after yourself) 	 Year 3 - plant life cycles and exploring the world of plants Year 2 - plant growth and care Year 1 - plants and seasonal changes 	 Previous topic Year 3 - plant life cycles and exploring the world of plants Year 2 - plant growth and care Year 1 - plants and seasonal changes 	 Year 3 - rocks Year 3 - forces and magnets (magnetism, poles, friction) Year 2 - everyday materials Year 1 - materials (absorbent, grouping, transparent, opaque) 	 Year 1 – senses Sound is explored in music lessons 	First encounter of learning about electricity
Next Steps	 Year 5 – plants and human life cycle Year 6 – living things (organism reproduction -fungus/mould) Year 6 – animals including humans' blood and transportation (nutrients and water in blood along with waste products) 	 Year 4 - classifying living things Year 5 - human life cycles Year 6 - living things and their habitats (micro-organisms, reproduction) Year 6 - evolution and inheritance – external factors/pressures on selection 	 Year 5 - human life cycles Year 6 - living things and their habitats (micro-organisms, reproduction) Year 6 - evolution and inheritance – external factors/pressures on selection, Charles Darwin , Mammals Reptiles Fish Amphibians Birds MRS GREN -what all living things do. 	 Year 5 - forces Year 5 - Earth and space Year 5 - materials (2 x topic) 	 KS3 - waves topic (audible sounds, microphones, distance travelled) 	 Year 6 electricity – circuits, conductors, insulators, circuit symbols, history of electrical appliances, currents KS3 - electricity and magnetism – electric fields, electric charge, circuits, components Resistance
YEAR 5	Properties of materials	Changes of materials	Forces	Earth and space	Studying living things	Animals including humans – the human life cycle
National Curriculum Objectives	 Compare/group materials based on their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets some materials will dissolve in liquid to form a solution, and 	 Compare/group materials based on their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets some materials will dissolve in liquid to form a solution, and 	 explain what gravity is: an invisible force acting between the Earth and the falling object identify the effects of air resistance, water resistance and friction, that act between moving surfaces 	 describe the movement of the Earth and other planets relative to the sun in the solar system describe the movement of the moon relative to the Earth describe the sun, Earth and moon as approximately spherical bodies 	 describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird describe the life process of reproduction in some plants and animals 	describe the changes as humans develop to old age

Why now?	 describe how to recover a substance from a solution use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating give reasons to use certain materials based on tests/evidence demonstrate reversible changes: dissolving, mixing explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda Must precede the changes topic to build that foundation 	 describe how to recover a substance from a solution use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating give reasons to use certain materials based on tests/evidence demonstrate reversible changes: dissolving, mixing explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda Must follow properties of materials Must go before DT project in 	 recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect Must complete before earth and space 	 use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky Must go after forces topic and materials 	 Weather permits planting and investigating outside/classroom 	 Supports the RSE topic Must go after life-cycles etc for
	knowledgeMust be done before spring term DT project	 spring term Weather restrictions may limit science outside 	Supports knowledge of DT project (pulleys and gears in spring term)	Conceptually more challenging so should go in latter half of year	Must precede human life cycle	plants
Previous knowledge	 Year 4 - states of matter –(solid, liquid, gas) Year 4 - electricity (conductors and insulators) Year 3 - forces and magnets (magnetic) Year 3 - rocks (rock types and formation, weathering of rocks) Year 2 - everyday materials Year 1 - everyday materials and exploring their use (magnets, certain materials for jobs, natural and man-made) 	 Year 5 - Properties of materials Year 4 - states of matter –(solid, liquid, gas) Year 4 - electricity (conductors and insulators) Year 3 - forces and magnets (magnetic) Year 3 - rocks (rock types and formation, weathering of rocks) Year 2 - everyday materials Year 1 - everyday materials and exploring their use (magnets, certain materials for jobs, natural and man-made) 	 Year 3 - forces and magnets (magnet types, friction, north/south pole) 	 Year 5 - forces Year 4 - states of matter – (changes with temp, freezing/melting, condense/evaporate) 	 Year 4 - living things and their habitat – nature and the environment Year 4 - classifying living things and their habitats Year 3 - plant life cycles and exploring the world of plants Year 2 - plants growth and care Year 1 – plants and seasonal changes 	 Year 5 – studying living things life cycles Year 2 – animals including humans' growth Year 1 – about me and about animals (2x topics)(senses body parts, growth, taking care, what animals need to live, where birds live, carnivores/herbivores)
Next Steps	 Year 5 - changes of materials Year 6 - electricity – insulation/conductors Year 6 - light – opaque/transparent etc KS3 - matter – solids, liquids, gas 	 Year 5 - changes of materials Year 6 - electricity – insulation/conductors Year 6 - light – opaque/transparent etc KS3 - matter – solids, liquids, gas KS3 matter – chemical changes, process of change, diffusion Potential energy 	 KS3 - forces and motion – resultant forces, friction and overcoming it, balanced and unbalanced forces 	 KS3 - Earth and space – atmosphere, rock cycles, internal structure of the earth, gravity, orbit, stars and galaxies 	 Year 5 - human life cycles Year 6 - living things and their habitats (micro-organisms, reproduction) Year 6 - evolution and inheritance – external factors/pressures on selection 	 KS3 - reproduction Changes in adolescence , menstrual cycles , conception to birth
YEAR 6	Animals including humans – heart and health	Animals including humans – blood and transportation	Electricity	Light	Living things and their habitat	Evolution and inheritance
National Curriculum Objectives	Name, find, give functions of parts of human circulatory system, and describe the heart, blood vessels and blood recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function describe the ways in which nutrients and water are transported within animals, including humans	Name, find, give functions of parts of human circulatory system, and describe the heart, blood vessels and blood recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function describe the ways in which nutrients and water are transported within animals, including humans	associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches use recognised symbols when representing a simple circuit in a diagram	recognise that light appears to travel in straight lines and use this to explain that objects are seen because they give out or reflect light into the eye explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them	describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals give reasons for classifying plants and animals based on specific characteristics	recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago recognise that living things produce offspring that are not identical but similar to them identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution
Why now?	Begins the understanding of blood function before development in the next topic Knowledge supports a piece of writing in English topic (reports/inform)	Follows heart health topic and builds on knowledge of blood Must be taught before evolution to support topic knowledge	Avoids using equipment as year 4 need it Develops understanding of energy in support of light topic next	Builds on knowledge of year 3 light topic Fair light conditions permit use of light/shadows experiments Conceptually more challenging so should be taught in latter half of the year	Weather conditions will permit for time outside and plant growth observations Supports the development of next topic (evolution)	Most complex to understand Must understand animals topic before this is learned

	Children will have some conceptual understanding of heart and health to build confidence in the topic					
Previous knowledge	Year 5 – human life cycle (gestation, adolescence, old age, changes) Year 4 – food and digestion (saliva, teeth, intestines, vitamins and minerals, food chains) Year 3 – what makes us (muscles, skeleton, healthy food) Year 2 Year 1 – about me and about animals (2x topics) (senses body parts, growth, taking care, what animals need to live, where birds live, carnivores/herbivores)	Year 6 – heart health (previous topic) Year 5 – human life cycle (gestation, adolescence, old age, changes) Year 4 – food and digestion (saliva, teeth, intestines, vitamins and minerals, food chains) Year 3 – what makes us (muscles, skeleton, healthy food) Year 2 Year 1 – about me and about animals (2x topics) (senses body parts, growth, taking care, what animals need to live, where birds live, carnivores/herbivores)	Year 4 - electricity – how to use it safely, circuit names, setting up circuits, build series and parallel circuits Conductors and insulators	Year 4 - light topic (formation of shadows, using reflection periscopes, danger of light rays, light enables us to see)	Year 5 - studying living things Year 4 - living things and their habitat – nature and the environment Year 4 - classifying living things and their habitats Year 3 - plant life cycles and exploring the world of plants Year 2 Year 1 – plants and seasonal changes	Life cycles of animals and plants Animals – systems in the body Year 3 – rocks (fossil formation) Year 5 – human life cycle (gestation, adolescence, old age, changes) Year 4 – food and digestion (saliva, teeth, intestines, vitamins and minerals, food chains) Year 3 – what makes us (muscles, skeleton, healthy food) Year 2 Year 1 – about me and about animals (2x topics) (senses body parts, growth, taking care, what animals need to live, where birds live, carnivores/herbivores)
Next Steps	KS3 - cells and organisation KS3 - reproduction KS3 - nutrition health and digestion KS3 - muscles and skeleton	KS3 - cells and organisation KS3 - reproduction KS3 - nutrition health and digestion KS3 - muscles and skeleton	KS3 - electricity and magnetism – electric fields, electric charge, circuits, components Resistance	KS3 - Energy topic KS3 - Waves topic (includes light reflection, refractions, pinhole cameras, speed of light, parts of the human eye)	KS3 - biology – photosynthesis KS3 - cells and organisation	KS3 - eco-systems and evolution (food-webs, genetics, extinction causes)