



Science



Haslingfield Endowed Primary School Curriculum



Our Science Curriculum

Intent

Key Overview

At Haslingfield Primary, it is our intention to recognise the importance of Science in every aspect of daily life. We give the teaching and learning of Science the prominence it requires. Science is taught as a discrete subject.

Knowledge Building

The Scientific area of learning is concerned with increasing pupils' knowledge and understanding of our world, whilst acquiring specific skills and knowledge to help them to think scientifically, to gain an understanding of scientific processes and also an understanding of the uses and implications of Science, today and for the future. It will develop the natural curiosity of the child, encourage respect for living organisms and the physical environment and provide opportunities for critical evaluation of evidence.

Skills Enquiry

Scientific enquiry skills are embedded in each topic the children study which are revisited and developed throughout their time at school. All children are encouraged to develop and use a range of skills including:

- observations,
- planning and investigations,
- question the world around them
- explore possible answers for their scientific based questions.

Concepts taught are reinforced by focusing on the key features of scientific enquiry, so that pupils learn to use a variety of approaches to answer relevant scientific questions.

Oracy and Discussion

Specialist vocabulary for topics is taught and built up, and effective questioning is used to enable pupils to communicate their scientific ideas.

Implementation

Themes and Topics

Through our science curriculum we cover a range of topics to ensure a comprehensive scheme of learning. Topics are taught in Key Stage One and studied again in further detail throughout Key Stage Two.

Programme of Study

Our Science programme of study is organised into four phases. These are, Early Years, Key Stage 1 (Years 1 and 2), Lower Key Stage 2 (Years 3 and 4), and Upper Key Stage 2 (Years 5 and 6). Children in each phases follow the same skills and knowledge programme.

A clear and comprehensive scheme of teaching and learning should plan for practical investigative opportunities within Science lessons. Children will reflect on previous learning and cross curricular links will be made wherever possible.

Children will be able to build on prior knowledge and link ideas together, enabling them to question and become enquiry based learners. Attainment will be assessed each half term through related topic assessment tasks

Application

Children will use a range of resources to develop their knowledge and understanding that is integral to their learning and develop their understanding of working scientifically.

Children have access to key language and meanings in order to understand and readily apply to their written, mathematical and verbal communication of their skills.

Challenge questions are set for pupils to apply their learning in a philosophical and open manner. Trips and visits from experts are organised to enhance the children's learning experience;

Where applicable links to Science will be made during the children's topical learning.

Impact

Key Overview

Through our science curriculum, our children will leave primary school with a secure understanding of the natural world around them and scientific processes.

Knowledge Acquisition

Our children will learn about the different materials surrounding them, rocks and states of matter. They will learn about animals, plants and living things and their habitats and the development of species through evolution and inheritance. They will also learn about forces, light, sound, electricity, and Earth in space.

Skilled Learners

Our children will be able to question ideas and reflect on their knowledge. They will work collaboratively and practically to investigate and experiment, explaining the process they have taken whilst being able to reason scientifically.

Able and Compassionate Scientists

Our children will retain knowledge that is pertinent to Science with a real life context, allowing them to understand, respect and protect the world and environment they live in.



YEAR 1 | YEAR 2

	Cycle A	Cycle B
	2022-23,	2023-24,
	2025-26	2026-27
Autumn 1	Materials	Materials
Autumn 2	Materials	Materials
Spring 1	Animals Including Humans (Parts of the Body)	Animals Including Humans (Parts of the Body)
Spring 2	Animals Including Humans (Name and Compare Animals) Sealife Animals	Animals Including Humans (Name and Compare Animals) Safari and Arctic Animals
Summer 1	Plants Plants not grow in the local environment / climate	Plants Plants grown in the local environment / climate
Summer 2	Living Things and their Habitats Food Chains	Living Things and their Habitats Habitats

Seasonal Change (Cycle B Only)

In cycle B the children will look at seasonal change. This is a theme that will run throughout each half-term, where the children will observe the seasonal change in the school environment.

LOWER KEY STAGE 2 – YEAR 3 & YEAR 4

	Cycle A	Cycle B
	2024-25, 2026-27, 2028-29, 2030-31	2023-24, 2025-26, 2027-28, 2029-30
Autumn 1	Electricity	Forces and Magnets
Autumn 2	States of Matter	Light
Spring 1	Earth in Space	Rocks
Spring 2	Earth in Space	Rocks
Summer 1	Living Things and their Habitats	Plants
Summer 2	Animals including Humans	Animals including Humans

UPPER KEY STAGE 2 - YEAR 5 & YEAR 6

	Cycle A	Cycle B			
	2024-25, 2026-27, 2028-29, 2030-31	2023-24, 2025-26, 2027-28, 2029-30			
Autumn 1	Forces	Electricity			
Autumn 2	Sound	Light			
Spring 1	Properties of materials	Evolution and Inheritance			
Spring 2	Changing materials	Evolution and Inheritance			
Summer 1	Living Things and their Habitats	Living Things and their Habitats			
Summer 2	Animals including Humans	Animals including Humans			





Science in the Early Years Profile

EARLY YEARS | SCIENCE SKILLS PROGRESSION

Children working within the Early Years Foundation Stage explore science themes by exploring the world around them. In the Reception year they should be given opportunity for both adult directed and child initiated scientific enquiry. Skilled practitioners will look for opportunities in the children's play to apply scientific themes.

Areas of the EYFSP that explicit connections can be made	Listening Attention and Understanding	Speaking	Building Relationships	Fine Motor	Comprehension	Word Reading
How Early Learning Goals	 Listen to and ask questions about the on a scientific theme Make comments about what they have seen to show an understanding of cause and effect 	 Use new scientific vocabulary to show understanding Express their ideas and feelings about what they have heard, seen, participated in. 	Explore scientific themes alongside peers, taking turns with resources, building on ideas, and develop collaborative thinking on what to do next/reasons for what they have observed.	 Use a range of scientific equipment and resources carefully and accurately. 	 Demonstrate an understanding of newly taught scientific vocabulary vocabulary 	 Through science themed vocabulary and text, children can Read words consistent with their phonic knowledge through blending Read aloud some simple sentences
can be demonstrated through Science	Writing	Number and Numerical Patterns	The Natural World	Past and Present	Creating With Materials	Being Imaginative and Expressive
	 Through science themed vocabulary and knowledge learning, children can Spell words by identifying sounds in them and representing the sounds with a letter or letters Write simple phrases and sentences that can be read by others 	 Within science themed learning, children can apply their counting skills to 20, compare quantities, and addition and subtraction facts to 10. Children can group and organise objects, counting how many objects are in a group. Spot patterns in simple data collection 	 Explore the natural world around them, making observations and drawing pictures of animals and plants Know some similarities between the natural world around them and contrasting environments Understand some important processes and changes in the natural world around them, including the seasons 	 Learn about some scientist in the past Learn about some scientists in the present (eg a special visitors) 	 Explore a range of materials and techniques to create and represent their understanding of their surrounding environment and the scientific knowledge they have been taught. Share their creations, explaining the process and meaning. 	 Think of own ways to investigate Begin to think of ways that may change the outcome to what they already know / have seen





Progression of Scientific Enquiry Skills

	EYFS	KEY STA	GE 1	LOWER KEY	STAGE 1	UPPER KEY	STAGE 1	
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Ask Questions	Ask relevant questions during whole class discussions and small group interactions.	Asking simple questi recognising that the answered in differer	y can be	Ask relevant question different types of sci to answer them.		Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.		
Make Careful Observations	Make simple observations	Observing closely, us equipment	sing simple	Make systematic and observations and, wh appropriate, take acc measurements using using a range of equi including thermomet loggers.	here curate standard units, ipment,	Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.		
Identify and Classify	Group objects that are similar and be able to explain how and why they grouped them	Begin to use classifie group and identify	ed terms to	Use classification acc written work and als identify	•	Confidently use scientific classification and vocabulary in written work and classification tasks.		
Use a range of equipment	Explore scientific equipment through play (ie magnifying glasses, magnets etc)	Know that specific e be used for specific o Begin to know the n scientific equipment purpose.	enquiries. ames of some	To be able to explain equipment would be to the investigation t	better suited	Independently select the correct equipment that would be best suited to the investigation and use effectively.		
Perform fair tests	Opportunities to experiment through cause and effect opportunities during play	Perform simple tests method (fair test no this stage)	•	Understand the factor constitute a fair test. practical enquiries, c fair tests.	. Set up simple	Use test results to make predictions to set up further comparative and fair tests. Use test results to make predictions to set up further comparative and fair tests.		
Gather, record, and present data		Gather and recordin simple formats to he answering questions	elp in	Gather, record, class present data in a var help in answering qu	iety of ways to	Depending on the type of investigation and the questions to be answered, begin to suggest and make choices on the best method to gather data, and also the most useful ways in which to collect and record.		





Skills and Knowledge Coverage KS2

	EYFS	KEY STA	GE 1	LOWER KEY	STAGE 1	UPPER KEY	′ STAGE 1		
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Record findings	Draw or photograph changes	Begin to use tables a record data	and charts to	Record findings using scientific language, c labelled diagrams, ke and tables.	lrawings,	Record data and resu complexity using scie labels, classification l graphs, bar and line g	entific diagrams and keys, tables, scatter		
Report findings		Be able to verbally r to peers and adults	eport findings	Report on findings fr including oral and we explanations, display presentations of resu conclusions.	ritten /s or	enquiries, including or relationships and exp degree of trust in res	Report and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations		
Draw conclusions	Begin to use their understanding of the world to offer ideas on how and why things may change	Using their observat to suggest answers t		Use results to draw s conclusions, make per new values, suggest and raise further que Identify differences, changes related to si ideas and processes. Use straightforward evidence to answer of support their finding	redictions for improvements estions. similarities or imple scientific scientific questions or to	Identify scientific evi been used to suppor arguments. Identify factors that influenced the result results could indicate and investigations or	t or refute ideas or may have s and also what the e for further tests		





Enquiry Skills Coverage Key Stage 1

	Ask questions	Observe, identify and classify	Use simple equipment	Perform simple tests	Gather and record data	Find answers to questions	Scientific Specific Vocabulary
Materials	`	~	~	~	•	1	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see-through, not see-through, suitable/unsuitable, use/useful, rigid/flexible, strong/weak, transparent/opaque, shape, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching.
Animals including Humans		~					Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves Names of animals experienced first-hand from each vertebrate group Parts of the body including those linked to PSHE teaching Senses – touch, see, smell, taste, hear, fingers (skin), eyes, nose, ear and tongue Offspring, reproduction, growth, child, young/old stages (examples - chick/hen, baby/child/adult, caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (examples – meat, fish, vegetables, bread, rice, pasta)
Plants	~	•	~	~	~	1	Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud Names of trees in the local area- Oak, Hawthorn, Ash, Beech, Willow Names of garden and wild flowering plants in the local area – Bluebell, buttercup, daisy, Goose grass, dandelion, daffodil, tulip, snowdrop, primrose, hollyhock, Light, shade, sun, warm, cool, water, grow, healthy
Living things and their habitats	~	~				1	Living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed, carnivore, herbivore and omnivore Names of local habitats e.g. pond, woodland etc. Names of micro-habitats e.g. under logs, in bushes etc.
Seasonal Change		1	1		1		Weather (sunny, rainy, windy, snowy etc.) Seasons (winter, summer, spring, autumn) Sun, sunrise, sunset, day length





Enquiry Skills Coverage Lower KS2 | Cycle A

	Ask relevant questions	Make careful observations	ldentify and classify	Use a range of equipment	Perform fair tests	Gather, record and present data	Record findings	Report findings	Draw conclusions	Scientific specific Vocabulary
Electricity	1	1		1	1			~	1	Electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol, circuit diagram, circuit symbol, voltage
States of Matter		~	~							Solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature, water cycle
Earth in Space	√								√	Earth, Sun, Moon, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), spherical, solar system, rotates, star, orbit, planets
Living things and their habitats		1	1							Classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate, Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, bulbs, cuttings
Animals (including Humans)	1	•	•	•	•	•	•	•	✓	Nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain Puberty – the vocabulary to describe sexual characteristics Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs, lifestyle





Enquiry Skills Coverage Lower KS2 | Cycle B

	Ask relevant questions	Make careful observations	ldentify and classify	Use a range of equipment	Perform fair tests	Gather, record and present data	Record findings	Report findings	Draw conclusions	Scientific specific Vocabulary
Forces	√	√		~	~	~	~	~	\checkmark	Force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears
Light	✓	~		~	√	✓	√	~	~	Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous, straight lines, light rays
Rocks		~	✓							Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil, fossil, marble, chalk, granite, sandstone, slate, soil, peat, sandy/chalk/clay soil
Plants		1	1							Photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal (wind dispersal, animal dispersal, water dispersal)
Animals (including Humans)	1	1	•	•	√	•	•	 Image: A start of the start of	√	Nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain Puberty – the vocabulary to describe sexual characteristics Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs, lifestyle





Enquiry Skills Coverage Upper KS2 | Cycle A

	Ask relevant questions	Make careful observations	ldentify and classify	Use a range of equipment	Perform fair tests	Gather, record and present data	Record findings	Report findings	Draw conclusions	Scientific specific Vocabulary		
Forces	~	~		~	\checkmark	~	\checkmark	✓	\checkmark	Force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears		
Sound	✓	~		~	\checkmark	~	\checkmark	~	\checkmark	Sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, loud, insulation		
Materials	1	1	1	1	1	1	1	1	1	Thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve, reversible/non-reversible change, burning, rusting, new material		
Living things and their habitats		1	1							Classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate, Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, bulbs, cuttings		
Animals (including Humans)	1		•	~	•	~	✓	J	✓	Nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain Puberty – the vocabulary to describe sexual characteristics Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs, lifestyle		





Enquiry Skills Coverage Upper KS2 | Cycle B

	Ask relevant questions	Make careful observations	ldentify and classify	Use a range of equipment	Perform fair tests	Gather, record and present data	Record findings	Report findings	Draw conclusions	Scientific specific Vocabulary		
Electricity	1	1		~	1			1	1	Electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol, circuit diagram, circuit symbol, voltage		
Light	~	~		\checkmark	~	~	\checkmark	~	~	Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous, straight lines, light rays		
Evolution and Inheritance	~	√	 Image: A start of the start of						~	Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossils		
Living things and their habitats		1	•							Classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate, Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, bulbs, cuttings		
Animals (including Humans)	1	1	✓		J		✓	J	•	Nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain Puberty – the vocabulary to describe sexual characteristics Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs, lifestyle		





	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Materials	Observe and group materials from the natural world around them and materials not from the natural world around them. Identify the name of some materials e.g. wood, plastic.	Distinguish between an object and the material it is made from. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple physical properties.	Identify and compare the suitability of a variety 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.			Compare and group eventheir properties, included solubility, transparency (electrical and thermal) magnets. Give reasons, based on particular uses of every including metals, wood Know that some mater liquid to form a solution recover a substance from Separate mixtures throw and evaporating. Demonstrate that disso changes of state are real Explain that some chan formation of new mater of change is not usually changes associated wit action of acid on bicarts	ing: hardness, y, conductivity), and response to evidence, for the yday materials, and plastic. ials will dissolve in n, and describe how to om a solution. ugh filtering, sieving olving, mixing and versible changes. eges result in the erials, and that this kind y reversible, e.g. h burning and the





	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals (Including Humans)	Explore the natural world around them by identifying, making observations and drawing pictures of animals. Identify and conduct their own personal hygiene and personal needs. Understand the importance of healthy food choices.	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	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.	Identify that animal humans, need the amount of nutritic cannot make their get nutrition from Identify that humal other animals have muscles for suppor movement. Describe the simp the basic parts of t system in humans Identify the different in humans and the Construct and inter food chains, ident predators and pre	als, including right types and on, and that they own food; they what they eat. ans and some e skeletons and ort, protection and le functions of the digestive ent types of teeth eir functions. erpret a variety of ifying producers,	Describe the char develop to old age Identify and name of the human circ and describe the f heart, blood vesse Recognise the imp exercise, drugs an the way their bod Describe the ways nutrients and wat transported withi including humans	ges as humans e. e the main parts ulatory system, functions of the els and blood. bact of diet, id lifestyle on ies function. s in which er are n animals,





	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants	Errs Explore the natural world around them by identifying, making observations and drawing pictures of plants.	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants, including trees.	Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	Identify and describe	e the functions of wering plants: roots, nd flowers. hents of plants for light, water, and room to grow) rom plant to plant. In which water is lants. t flowers play in the g plants, including	rear 5	rear o



	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Know some	Explore and compare	e the differences	Recognise that living	Recognise that living things can be		nces in the life cycles
	similarities and	between things that	-	grouped in a variety	of ways.	of a mammal, an am	nphibian, an insect
bitats	differences	things that have nev	er been alive.			and a bird.	
σ	between the			Explore and use class	•		
it	natural world	Identify that most liv		help group, identify			cess of reproduction
q	around them and	habitats to which the	•	of living things in the	eir local and wider	in some plants and a	animals.
Ha	contrasting	describe how differe		environment.			
	environments.	for the basic needs c	of different kinds of	Decognico that any in	onmonte con	Describe how living	_
		animals and plants.		Recognise that envir change and that this		observable characte	ccording to common
e e		Identify and name a variety of plants and		pose dangers to livin			
their		animals in their habitats, including		pose dangers to living things.		similarities and differences, including microorganisms, plants and animals.	
		microhabitats.		Recognise that living things can be			
and			grouped in a variety of ways.		-	Give reasons for clas	ssifving plants and
ש		Describe how anima	ls obtain their food	0		animals based on sp	/ 01
		from plants and othe	er animals, using the	Explore and use class	sification keys to	characteristics.	
50		idea of a simple food	chain, and identify	help group, identify	•		
		and name different s	sources	of living things in the	eir local and wider		
Things				environment.			
00				Recognise that envir			
Living				change and that this			
<u>></u>				pose dangers to livin	ig things.		



	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Electricity				Identify common appelectricity. Construct a simple secircuit, identifying an parts, including cells, switches and buzzers Identify whether or r in a simple series circuit whether it is comple Recognise that a swi closes a circuit. Recognise some com and insulators, and a with being good con	pliances that run on eries electrical nd naming its basic , wires, bulbs, s. hot a lamp will light cuit, based on te or not. tch opens and hmon conductors associate metals	Associate the bright volume of a buzzer v voltage of cells used	ness of a lamp or the with the number and in the circuit. easons for variations function, including lbs, the loudness of off position of bols when



	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Forces	EYFS	Year 1	Year 2	Year 3 Compare how things surfaces. Notice that some for between two objects forces can act at a di Observe how magne each other and attra and not others. Compare and group materials as to whet magnetic or not, and magnetic materials Describe magnets as poles and predict wh attract or repel, depu- poles are facing.	s move on different rces need contact s, but magnetic istance. ets attract or repel act some materials together everyday her they are d identify some	Explain that unsupport towards the Earth b of gravity acting bet the falling object. Identify the effects of water resistance and between moving sup Recognise that some	orted objects fall ecause of the force ween the Earth and of air resistance, d friction that act rfaces. e mechanisms, leys and gears, allow





	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
States of Matter				Compare and group materials tog whether they are solids, liquids or Observe that some materials char are heated or cooled, and measur temperature at which this happer (°C). Identify the part played by evapor condensation in the water cycle a of evaporation with temperature.	gases. age state when they be or research the as in degrees Celsius ration and nd associate the rate		

	EYFS Year	1 Year 2	Year 3	Year 4	Year 5	Year 6
Sound					Identify how sounds are mad something vibrating. Recognise that vibrations fro a medium to the ear. Find patterns between the p features of the object that p Find patterns between the v strength of the vibrations th Recognise that sounds get fa the sound source increases.	om sounds travel through bitch of a sound and broduced it. volume of a sound and the at produced it.







	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Rocks			<u>.</u>	Compare and group kinds of rocks by ap physical properties. Describe how fossils things that have live within rock. Recognise that soils rocks and organic m	pearance and simple are formed when are trapped are made from		

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Evolution & Inheritance						Recognise that living changed over time a provide information that inhabited the Ea ago. Recognise that living offspring of the same offspring vary and ar their parents. Identify how animals adapted to suit their different ways and the lead to evolution.	nd that fossils about living things arth millions of years things produce kind, but normally re not identical to and plants are environment in

