Progression of Skill & Knowledge in Science

Biology:

	Animals, Including Humans	Evolution and Inheritance	Plants	Living Things and Their Habitats
Year 1	√		✓	
Year 2	√		✓	✓
Year 3	✓		✓	
Year 4	✓		Part Objective	√
Year 5	✓		Part Objective	√
Year 6	✓	✓		✓

Chemistry:

	Materials	Rocks and Fossils	States of Matter
Year 1	✓		
Year 2	✓		
Year 3		✓	
Year 4			✓
Year 5	✓		
Year 6			

Physics:

	Forces and Magnets	Sound	Light	Electricity	Space and Seasonal Variation
Year 1					✓
Year 2					
Year 3	✓		✓		
Year 4		✓		✓	
Year 5	✓				✓
Year 6			✓	✓	

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals, Including Humans	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.	 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. 	 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. 	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	Describe the simple functions of the basic parts of the digestive system in humans. Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains, identifying producers, predators and prey.	Describe the changes as humans develop to old age (Puberty – Links to SRE)	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Recognise the impact of diet, exercise, drugs and lifestyle of the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans.

Vocabulary	Animal, pet, names of common farm animals, names of common pets, names of common zoo animals, Names of body parts (head, shoulders, knees, toes, leg, hand, foot etc.), food, drink, water	Mammal, fish, reptile, bird, amphibian, herbivore, carnivore, omnivore, nocturnal, human, pet, senses	Healthy, diet, exercise, nutrients, hygiene, vegetables, fruit, carbohydrates, meat, dairy, grow, sleep, offspring	Nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, skull, ribs, spine, joints	Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, pancreas, nutrients, large intestine, rectum, anus, prey, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, food chain, organ, consumer	Life-cycle, reproduce, sexual reproduction, sperm, egg, live young, puberty, adolescence, foetus, infant, child, adult	Heart, pulse (rate), pumps, blood, blood vessels, transported, lungs, oxygen, drugs, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise
Evolution and Inheritance							Recognise that living things have changed over time and that their fossils provide information about living things that inhabited the Earth millions of years ago. Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. Identify how animals and plants are adapted to suit their environment in different ways that the adaption may lead to evolution.
Vocabulary							Evolution, offspring, sexual reproduction, variation, suited, adaptation, inheritance, environment, characteristics, species, habitat, fossils, natural selection, DNA, organism, climate

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.	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 the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. Explore the requirements of plant life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. Investigate the way in which water is transported within plants. Explore the role of flowers in the lifecycle of flowering plants, including pollination, seed formation and seed dispersal. 	Partially linked to 'Living things and Their Habitats' objectives.	Describe the life process of reproduction in some plants and animals. (Linked to life-cycles in Living Things and Their Habitats)	
Vocabulary	Plant, names of some parts of plants (flower, leaf / leaves, stem, roots), names of common plants, vegetable names, fruit names, tree, trunk, branch, soil	Plant, deciduous, evergreen, trunk, root, branch, twig, stem, seed, blossom, wild plants, garden plants, weeds, flowers, fruit, bulb, leaf, leaves	Plant, roots, bulb, seeds, blossom, stem, trunk, leaves, woodland, deciduous, evergreen	Leaves, photosynthesis, deciduous, evergreen, seed, seedling, seasonal change, roots, pollen, pollination, seed formation, seed dispersal, germination, flowers		Life-cycle, reproduce, sexual reproduction, sperm, egg, fertilises, plantlets, runners, asexual reproduction, bulbs, cuttings, pollination	
Living Things and Their Habitats	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.		 Explore and compare the differences between things that are living, dead, and things that have never been alive. Identify that most living things live in 		 Recognise that living things can be grouped in a variety of ways. Explore and use classification keys to help group, identify and name a variety 	 Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in 	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-

	(Looking at where creatures can be found – e.g. fish in water).		habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. Identify and name a variety of plants and animals in their habitats, including micro-habitats. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.		of living things in their local and wider environment. Recognise that environments can change and that this can sometimes pose dangers to living things (Linked to Plants).	some plants and animals (Linked to Plants).	organisms, plants and animals. • Give reasons for classifying plants and animals based on specific characteristics.
Vocabulary	Home, food, living, animal, plant, drink, water, bug, spider, worm, fly, bee, wasp, names of common animals (e.g. squirrel)		Living, non-living, dead, animal, habitat, food chain, prey, predator, carnivore, herbivore, omnivore, human, micro- habitat		Classification key, leaf arrangement, leaf edge, simple leaves, compound leaves, leaf veins, environment, habitat, human impact, species, life process, seasonal change, hibernate, migration	Life-cycle, reproduce, sexual reproduction, sperm, egg, fertilises, live young, metamorphosis, plantlets, runners, asexual reproduction, bulbs, cuttings, pollination	Vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, spiders (arachnids), insects, snails, worms, flowering plants, non-flowering plants, living things, environment, animals, classify / classification key, micro-organisms, species, fungi, monera, bacteria, Protista, plant
Scientists Biographical Studies House Teams		Steve Irwin (1962-2006) Australian television personality, environmentalist and wildlife expert nicknamed 'The Crocodile Hunter.'	Joan Beauchamp Procter (1897-1931) British zoologist who discovered new species of reptiles and designed the most	Beatrix Potter (1866-1943) English writer and natural scientist, known for writing Peter Rabbit, but also for her detailed work in mycology (fungi).	David Attenborough (1926-Present) English broadcaster and natural historian, known for his work within the BBC's Natural History Unit, fronting productions	Maria Sibylla Merian (1647-1717) German scientific illustrator and entomologist, who classified many new insect species and carefully illustrated the	Charles Darwin (1809-1882) English naturalist, geologist and scientist, who sailed to the Galapagos Islands on HMS Beagle. Whilst there, he developed

<u> </u>	<u> </u>		and as Dlaw at Fruit II	metamorphosis of the	his theories of natural
	Steve Backshall	advanced reptile house of her time.	such as Planet Earth II		selection and
		or ner time.	and Blue Planet II.	butterfly.	evolution.
	(1973-Present)		N.A		evolution.
	English naturalist and		Marjory Stoneman		AIS I D LAKE II.
	television personality		Douglas (1999)		Alfred Russel-Wallace
	known for BBC's		(1890-1998)		(1823-1913)
	Deadly 60 series.		American writer and		British naturalist,
			conservationist whose		explorer,
			work led to the		anthropologist and
			creation of the		biologist, who
			Everglades National		alongside Charles
			Park. She provided		Darwin, independently
			great insight into		conceived the theory
			wetland ecosystems		of evolution.
			and was also involved		
			in the women's rights		Rosalind Franklin
			(suffrage) movement.		(1920-1958)
					English chemist and x-
			Mary Agnes-Chase		ray crystallographer
			(1869-1963)		whose work was
			American botanist and		central to
			suffragist, who not		understanding the
			only fought for		structure of DNA.
			women's rights, but		
			became the world's		Carl Linnaeus
			greatest agrostologist		(1707-1778)
			(grass expert),		Swedish biologist who
			identifying thousands		created the binomial
			of species around the		naming system for
			world.		living things. His work
					began to link together
					the 'tree of life',
					showing how species
					are related to one
					another.
					Jane Goodall
					(1934-Present)
					English primatologist,
					who is considered the
					world's greatest expert
					on Chimpanzee
					behaviour. She is
					highly active in
					conservation efforts.
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	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Materials	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. (Exploring different objects and materials through play, building with them and manipulating them).	Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock. Describe the simple physical properties 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.	Year 3	Year 4	Compare and group together everyday materials based on evidence from comparative and fair tests, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. Know that some materials will dissolve in liquid to form a solution, and 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, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. Demonstrate that dissolving, mixing and changes of state	Year 6

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Vocabulary	Names of basic objects and some materials – e.g. rock, sand, soil. Descriptions of properties – hard, soft, squishy etc.	Rough, property, smooth, material, object, hard, soft, stretchy, shiny, dull, waterproof, absorbent, bendy, stiff	Material, properties, squashing, bending / flexible, twisting, stretching, hard, soft, rough, smooth, waterproof, absorbent, transparent, translucent, opaque.		are reversible changes. • 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. Thermal conductor, thermal insulator, electrical conductor, electrical insulator, state of matter (solid, liquid, gas), object, material, property (hard / soft, transparent, translucent, opaque, permeable, impermeable, flexible, still, malleable, smooth, rough), mixture, dissolve, solution, filter, sieve, reversible change, irreversible change, burning, rusting, change of state, solubility	
Rocks and	Know some similarities			 Compare and 		
Fossils	and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. (Exploring the outdoor areas – rocks, sand pits, soil for growing plants etc.)			group together different kinds of rocks on the basis of their appearance and simple physical properties Describe in simple terms how fossils are formed when things that have lived are trapped within rock. Recognise that soils are made from		

		rocks and organic matter.	
Vocabulary	Rock, soil, brick	Rock / Stone, pebble, boulder, grain, crystals, layers, organic matter, permeable (absorbs water), impermeable (waterproof), soil, fossil, sedimentary rocks, metamorphic rocks, magma	
States of Matter	Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. (Everyday experiences – e.g. chocolate melting in hands, ice forming on cold days etc.)		 Compare and group materials together, according to whether they are solids, liquids or gases. Observe that 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 part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.
Vocabulary	Water, air, hard, cold, hot, warm, snow, ice, sun.		Solid, liquid, gas, state change, melting, freezing, melting point, evaporation, condensation, temperature, water cycle, water vapour, precipitation, surface run- off

Scientists	John Dunlop	Mary Anning	Marie Curie	
Colonida	(1840-1921)	(1799-1847)	(1867-1934)	
D: 1: 1	Scottish inventor and	English fossil collector	Polish (later French)	
Biographical Studies	veterinary surgeon	and palaeontologist	physicist and chemist	
	who developed	who showed fossils to	who conducted	
House Teams	pneumatic rubber tyre	be impressions of	pioneering research	
	for bicycles and cars.	extinct creatures	into radiation,	
		(usually dinosaurs).	discovered two	
		She found the first	elements (Polonium	
		complete ichthyosaur	and Radium) and	
		skeleton.	created the first x-ray	
			trucks during World	
		Katia Kraft	War I.	
		(1942-1991)		
		French geologist and		
		volcanologist whose		
		work helped develop		
		volcano evacuation		
		procedures.		

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
orces and	(Pushing and pulling	-		Compare how		Explain the	
	objects through play			things move on		unsupported	
agnets	on different surfaces)			different surfaces.		objects fall towards	
				Notice that some		the Earth because	
				forces need contact		of the force of	
				between two		gravity acting	
				objects, but		between the Earth	
				magnetic forces		and the falling	
				can act at a		object.	
				difference.		Identify the effect	
				Observe how		of air resistance,	
				magnets attract or		water resistance	
				repel each other		and friction that act	
				and attract some		between moving	
				materials and not		surfaces.	
				others.		Recognise that	
				Compare and		some mechanisms	
				group together a		including levers,	
				variety of everyday		pulleys and gears	
				materials on the		allow a smaller	
				basis of whether		force to have a	
				they are attracted		greater effect.	
				to a magnet, and			
				identify some			
				magnetic materials.			
				Describe magnets			
				as having two			
				poles.			
				Predict whether			
				two magnets will			
				attract or repel			
				each other,			
				depending on			
				which poles are			
				facing.			
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	T	T		T	Т	T
Vocabulary			Forces, push, pull,		Force, gravity, Earth,	
,			contact force, non-		air resistance, water	
			contact force, magnet		resistance, simple	
			(bar, button, ring,		machines, friction,	
			horseshoe), attract,		levers, pulleys, gears,	
			repel, magnetic,		gears, parachute	
			magnetic strength,		gears, paracriate	
1			pole, iron, surface,			
			friction			
Sound	(Listening to different			 Identify how 		
	sounds and what they			sounds are made,		
	are like – e.g. bird			associating some of		
	song, car engine etc.)			them with		
	, ,			something		
				vibrating.		
				Recognise 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 strength of the		
				vibrations that		
				produced it.		
				Recognise that		
				sounds get fainter		
				as the distance		
				from the sound		
				source increases.		
Vocabulary				Sound, source, vibrate /		
				vibration, travel, pitch		
				(high/low), volume, faint,		
				loud, insulation, ear,		
				sound wave, frequency		

Light	(Observing turning on lights when it is dark, rainbows in the sky, longer/shorter daylight lengths, shadows on sunny days).		 Recognise that they need light in order to see things and that dark is the absence of light. Notice that the light is reflected from surfaces. Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. Recognise that shadows are formed when the light from a light source is blocked by an opaque object. Find patterns in the way that the size of shadows change. 		 Recognise that light appears to travel in straight lines. Use the idea that light travels in straight lines 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.
Vocabulary			Light, light source, dark/darkness, transparent, translucent, opaque, shiny surface, matt surface, shadow, reflect, mirror, sunlight, dangerous		Visible light rays, primary light source, secondary light source, dark/darkness, transparent, translucent, opaque, shiny surface, matt surface, shadow, reflect, straight lines, sunlight, dangerous, filters

Electricity	(Knowing that some things need batteries or need to be plugged into the mains in order for them to work).	Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts including cells, wires, bulbs, switches and buzzers. Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. Recognise some common conductors and insulators, and associate metals with	 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.
		being good conductors.	
Vocabulary		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, conductor, insulator, symbol	Electricity, series circuit, complete circuit, cell/battery, circuit diagram, volts/voltage, bulb, switch, buzzer, motor, electrical symbols, electrical conductor, electrical insulator, socket, plug, fuses, component

Space & Seasonal Change	Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. Season, spring, summer, autumn, winter, hot, cold, snow, sunny, ice, leaves, rain, wind	Observe changes across the four seasons. Observe and describe weather associated with the seasons and how day length varies. Season, spring, summer, autumn, winter, day, night, cold, sleet, hail, snow, weather, weather forecast, weather symbols			 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. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky. Phases, rotation, orbit, planets, seasons, star, hemisphere, moon, poles, space, reflect, solar system 	
Scientists Biographical Studies House Teams		Robert Fitzroy (1805-1865) English captain of HMS Beagle, the ship on which Charles Darwin travelled to the Galapagos Islands. He was a meteorologist, using his knowledge of weather helped him to establish the Met Office.	Michael Faraday (1791-1867) English scientist who studied electromagnetism and electrochemistry.	Hertha Ayrton (1854-1923) British engineer, mathematician and inventor who develop the electric arc, establishing a better understanding of electrical currents and improved street lighting. She was the first woman to be accepted into the Institution of Electrical Engineers.	Galileo Galilei (1564-1642) Italian astronomer, physicist and engineers. Proved the heliocentric model of the solar system, mapped the Moon, discovered the four largest (Galilean) moons of Jupiter and observed Saturn's rings after perfecting the modern telescope. Katherine Johnson	Isaac Newton (1642-1726) English mathematician, physicist and astronomer, known for developing his laws of motion, the theory of gravity and creating the calculus branch of mathematics. He also worked with light, using prisms to split white light into the visible spectrum (rainbow).

	Benjamin Franklin (1706-1790) American founding father (politician), scientist and inventor, who worked on electricity, identifying positive and negative charges using lightning rods.	(1918-2020) African- American former teacher, mathematician and physicist, whose calculations guided the NASA Mercury and later Apollo Moon missions. Her work broke down both gender and race barriers.
		Nicholas Copernicus (1473-1543) Polish mathematician and astronomer who developed the heliocentric model (Sun-centred) of the solar system. Valentina Tereshkova
		(1937-Present) Russian cosmonaut, engineer and politician, famous for being the first woman in space. Neil Armstrong (1930-2012) American astronaut, test pilot and
		aeronautical engineer who was the first human to set foot upon the surface of the Moon as part of NASA's Apollo 11 programme.

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		(ECM KS1 Intermediate)	(NC KS1)	(ECM LKS2 Intermediate)	(NC LKS2)	(ECM UKS2 Intermediate)	(NC UKS2)
Enquire	(Asking simple questions about their everyday experiences).	Asking simple questions and with help, find out answers to them.	Asking simple questions and recognising that they can be answered in different ways.	Be guided to ask more relevant questions and become aware of different types of scientific enquiries to answer them. Engage in simple practical enquiries, comparative and fair tests they have had some help with setting up.	Ask relevant question and use different types of scientific enquiries to answer them. Set up simple practical enquiries, comparative and fair tests.	Plan with support different types of scientific enquiries to answer questions, begin to recognise variables and where necessary, how to control these. Use test results to make predictions for other comparative and fair tests.	Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary. Use test results to make predictions to set up further comparisons and fair tests.
Explore	Explore the natural world around them, making observations.	Observe, suing simple equipment. Perform simple tests with help. Can identify and classify with support.	Observe closely, using simple tests. Identify and classify.	Make careful observations and begin to realise the need for more accurate measurements – example: mm instead of cm using standard units, using a range of equipment including thermometers and data loggers.	Make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment including thermometers and data loggers.	Take measurements, using a range of scientific equipment, with increasing accuracy. Become aware of precision and the need to obtain similar results, taking repeat readings when appropriate.	Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
Record	Drawing pictures of animals and plants.	Know that gathering and recording data can help in answering questions; with support, gather and record data.	Gather and record data to help in answering questions.	Gather and record data in different ways to help in answering questions. Record findings using simple scientific language, drawings, labelled diagrams and tables; develop use of bar charts and keys with appropriate support.	Gather, record, classify and present data in a variety of ways to help in answering questions. Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.	Record data and results using scientific diagrams and labels, classification keys and bar graphs. Become familiar with and begin to develop use of scatter graphs and line graphs.	Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar charts and line graphs.

Explain	Know the similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Understanding some important processes and changes in the natural world around them, including the seasons and changing states of matter.	Use their observations to try to answer their questions.	Use their observations and ideas to suggest answers to questions.	Report on findings from enquiries, including oral and written explanations, displays or presentations. Use results to draw simple conclusions. Identify differences, similarities or changes related to simple scientific ideas. Use straightforward scientific evidence to answer questions.	Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Use results to draw simple conclusions, make predications for new values, suggest improvements and raise further questions. Identify differences, similarities or changes related to simple scientific ideas and processes. Use straightforward scientific evidence to answer questions or support their findings.	Report and present findings from enquiries, including conclusions and explanations of results in oral and written forms such as displays and other presentations. Identify scientific evidence that supports their ideas. Become aware of simple causal relationships and be able to explain some. Begin to develop understanding that not all results can be trusted.	Report ad present findings from enquiries, including conclusions, causal relationships or, and degree of trust in, results in oral and written forms such as displays and other presentations. Identify scientific evidence that has been used to support or refute ideas or arguments.
Vocabulary	Look, watch, listen,	KS1 (Y1-2)		LKS2 (Y3-4)		UKS2 (Y5-6)	
	hear, smell, taste, feel, touch, see, draw, say, tell	Question, Answer, Observe, Observing, Equipment, Identify, Classify, Sort, Group, Record (Diagram / Chart), Map, Data, Compare, Contrast, Describe, Biology, Chemistry, Physics		Research (relevant questions, scientific enquiry), Comparative Test, Fair Test, Systematic Observation, Careful Observation, Accurate Measurements, Equipment (Thermometer, Data Logger), Date (Gather, Record), Classify, Present, Record (Drawings, Labelled Diagrams, Keys, Bar Charts, Tables), Explanations (Oral and Written), Conclusion, Prediction, Differences, Similarities, Changes, Evidence, Improve, Secondary Source, Guides, Construct, Interpret		Plan, Variables, Measurements, Accuracy, Precision, Repeat Readings, Record Data (Scientific Diagrams, Labels, Classification Keys, Tables, Scatter Graphs, Bar Graph, Line Graph), Predictions, Comparative Test, Fair Test, Report and Present (Conclusions, Causal Relationships, Explanations, Degree of Trust, Oral and Written), Display, Presentation, Evidence (Support, Refute, Ideas, Arguments), Identify, Classify, Describe, Patterns, Systematic, Quantitative Measurements	

EYFS Understanding the World – The Natural World (2020 Curriculum)

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.