

Long Term Individual Subject Curriculum Plan 2025-2026

Subject: Science

Links between our school vision and mathematics Belonging:

- Inclusivity: All students have access to science, fostering a sense of belonging.
- Collaboration: Teamwork in experiments helps students connect and work together.
- Active Participation: Hands-on, inquiry-based learning engages every student.

Serving:

- Real-World Impact: Science helps students apply knowledge to solve community and environmental issues.
- Critical Thinking: Students develop skills to make informed, responsible decisions.
- Social Responsibility: Topics like sustainability teach students to serve society and the planet.

Succeeding:

- Skill Development: Science nurtures key skills for academic and personal success.
- Curiosity: Encourages problem-solving and builds confidence through discovery.
- Celebrating Achievement: Success is recognised through exploration and progress.

	Science in Key Stages 1 and 2							
	Autumn 1	Autumn 2	Spring	Spring	Summer 1	Summer 2		
			1	2				
Y6 (Knowledge / Skills / Vocabulary)	Animals, including Humans - The Circulatory System 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 on the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans.	Evolution and Inheritance • 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 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 and that adaptation may lead to evolution.	Living Things and their Habitats - Classification Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals. Give reasons for classifying plants and animals based on specific characteristics.	Light and Astronomy 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.	Electricity • 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.	Famous Scientists and Inventors		

Skills -Recording data and results of increasing complexity using scientific diagrams and labels. classification keys, tables, scatter graphs, bar and line graphs The children decide how to record and present evidence. They record measurements using tables and line graphs. **Planning different** types of scientific enquiries to answer questions,

controlling variables where necessary
Children decide for themselves how to gather evidence to answer a scientific question. They choose a type of enquiry to carry out and justify their choice.
They carry out fair tests, recognising and controlling

including

recognising and

Skills -**Identifying scientific** evidence that has been used to support or refute ideas or arguments Children answer their own and others' questions based on observations they have made. measurements they have taken or information they have gained from secondary sources. When doing this, they discuss whether other evidence (from secondary sources and their scientific understanding) supports or refutes their answer. Children talk about how their scientific ideas change due to new evidence that they have gathered. Children talk about how new discoveries change scientific understanding.

Skills -**Recording data** and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs Children record classifications using tables and classification keys. They record measurements using tally charts. **Planning** different types of scientific enquiries to answer auestions. including recognising and controlling variables where necessarv Children recognise how secondary sources can be used to answer questions that cannot be answered through practical work.

Skills -**Planning different** types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Children independently ask scientific questions, stimulated by a scientific experience. The children select from a range of practical resources to gather evidence to answer their questions. Children select from a range of practical resources to gather evidence to answer their questions. They carry out fair tests, recognising and controlling variables. They decide what observations or measurements to make over time and for how long. **Taking** measurements, using a range of scientific

equipment, with

Skills -**Planning different** types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Given a wide range of resources, the children decide for themselves how to gather evidence to answer a scientific question. Recording data and results of increasing complexity using scientific diagrams and labels. classification keys, tables, scatter graphs, bar and line graphs Children record observations using labelled scientific diagrams. Reporting and presenting findings from enquiries. including conclusions, causal relationships and explanations of

Skills -Identifying scientific evidence that has been used to support or refute ideas or arguments Children talk about how their scientific ideas change due to new evidence that they have gathered. Children talk about how new discoveries change scientific understanding.

variables. They decide what observations or measurements to make over time and for how long. They look for patterns and relationships using a suitable sample. Children recognise how secondary sources can be used to answer questions that cannot be answered through their own practical work. **Taking**

Taking
measurements,
using a range of
scientific
equipment, with
increasing
accuracy and
precision, taking
repeat readings
when appropriate
During an enquiry,
children make
decisions as to
whether they need to
take repeat readings
to ensure fair testing.

increasing accuracy and precision, taking repeat readings when appropriate Children select measuring equipment to give the most precise result – a ruler.

Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bars and line graphs
The children record

observations using

labelled diagrams. Reporting 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 In their conclusions. children: identify causal relationships

and patterns in the

and degree of trust in results, in oral and written forms such as displays and other presentations In their conclusions. children: identify causal relationships and patterns in the natural world from their evidence: identify results that do not fit the overall pattern; and explain their findings using their subject knowledge. Children evaluate. for example, the choice of method used, the control of variables, the precision and accuracy or measurements. Children identify any limitations that reduce the trust they have in their data. **Taking** measurements, using a range of scientific

equipment, with

precision, taking

increasing

accuracy and

				natural world from their evidence; identify results that do not fit the overall pattern; and explain their findings using their subject knowledge. Children communicate their findings to an audience using relevant scientific language and illustrations. Using test results to make predictions to set up further comparative and fair tests Children use the scientific knowledge gained from enquiry work to make predictions that they can investigate using comparative and fair tests.	repeat readings when appropriate During an enquiry, children make decisions as to whether they need to increase the sample size in order to get accurate data (closer to the true value). Using test results to make predictions to set up further comparative and fair tests Children use the scientific knowledge gained from enquiry work to make predictions that they can investigate using comparative and fair tests.	
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	Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs, lifestyle	Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossils	Vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering, non- flowering	As for Year 3 - Light, plus straight lines, light rays	Circuit, complete circuit, circuit diagram, circuit symbol, cell, battery, bulb, buzzer, motor, switch, voltage	
Y5 (Knowledge / Skills / Vocabulary)	Living Things and Their Habitats 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	Properties and Char Compare and group materials on the basis including their hard transparency, conduct thermal), and responent to recover a substance of the second of t	together everyday of their properties, dness, solubility, tivity (electrical and onse to magnets. erials will dissolve in an and describe how be from a solution. solids, liquids and mixtures might be a through filtering, waporating. If on evidence from ests, for the particular exterials, including and plastic. solving, mixing and eversible changes. In anges result in the erials, and that this usually reversible, ociated with burning and bicarbonate of	Earth and Space • 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	Forces	Animals including Humans • Describe the changes as humans develop to old age.

Life cycle, reproduce,	Thermal/electrical insulator/conductor,	Earth, Sun, Moon,	Force, gravity, Earth,	Puberty – the
sexual, sperm,	change of state, mixture, dissolve, solution,	(Mercury, Jupiter,	air resistance, water	vocabulary to
fertilises, egg, live	soluble,	Saturn, Venus, Mars,	resistance, friction,	describe sexual
young,	insoluble, filter, sieve, reversible/non-	Uranus, Neptune),	mechanisms, simple	characteristics
metamorphosis,	reversible change, burning, rusting, new	spherical, solar	machines, levers,	
asexual, plantlets,	material	system,	pulleys, gears.	
runners, bulbs,		rotates, star, orbit,		
cuttings		planets		
Skills –	Skills –	Skills -	Skills –	Skills -
Recording data and	Recording data and results of increasing	Recording data and	Planning different	Recording data
results of	complexity using scientific diagrams	results of	types of scientific	and results of
increasing	and labels, classification keys, tables,	increasing	enquiries to	increasing
complexity using	scatter graphs, bar and line graphs	complexity using	answer questions,	complexity using
scientific diagrams	Record classifications using Venn	scientific diagrams	including	scientific diagrams
and labels,	diagrams, Carroll diagrams and	and labels,	recognising and	and labels,
classification keys,	classification keys.	classification keys,	controlling	classification keys,
tables, scatter	They record observations using annotated	tables, scatter	variables where	tables, scatter
graphs, bar and line	photographs, videos, labelled diagrams,	graphs, bar and line	necessary	graphs, bar charts
graphs	observational drawings, labelled scientific	graphs	Children select from	and line graphs
Record	diagrams or writing.	Children record	a range of practical	Children record
classifications using	Children decide how to record and present	observations using	resources to gather	observations in
Venn diagrams.	evidence. They record measurements	videos.	evidence to answer	writing and in
Children present the	using tables.	Identifying	their questions. They	pictures.
same data in	Planning different types of scientific	scientific evidence	carry out fair tests,	Record
different ways in	enquiries to answer questions, including	that has been used	recognising and	classifications in
order to help with	recognising and controlling variables	to support or refute	controlling variables.	Venn diagrams.
answering questions.	where necessary	ideas or arguments	Recording data and	Children present the
Children record	Children independently ask scientific	Children answer	results of	same data in
measurements using	questions. They may be stimulated by a	questions based on	increasing	different ways in
bar charts, line	scientific experience or involve asking	observations they	complexity using	order to help with
graphs and scatter	further questions based on their developed	have made and	scientific diagrams	answering
graphs.	understanding following an enquiry.	measurements they	and labels,	questions.
Planning different	Using test results to make predictions to	have taken.	classification keys,	Children record
types of scientific	set up further comparative and fair tests	Reporting and	tables, scatter	measurements
enquiries to answer	Children use scientific knowledge gained	presenting findings	graphs, bar and	using bar charts,
questions,	from enquiry work to make predictions they	from enquiries,	line graphs	line graphs and
including	can investigate using comparative and fair	including	Children decide how	scatter graphs.
recognising and	tests.	conclusions, causal	to record and	Identifying
controlling		relationships and	present evidence.	scientific evidence

variables where necessary

Children recognise how secondary sources can be used to answer questions that cannot be answered through practical work. Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate

During the enquiry, children make decisions as to whether they need to adjust the observation period and frequency, in order to get accurate data.

The children select measuring equipment to give the most precise results.

Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary

Children independently ask scientific questions. This may be stimulated by a scientific experience or involve asking further questions based on their developed understanding following an enquiry. The children select from a range of practical resources to gather evidence to answer their questions. They carry out fair tests, recognising and controlling variables. They decide what observations or measurements to make over time and for how long. They look for patterns and relationships using a suitable sample. Reporting 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

In their conclusions, children identify causal relationships from their evidence, identify results that do not fit the overall pattern and explain their findings using their subject knowledge.

explanations of and degree of trust in results, in oral and written forms such as displays and other presentations In their conclusions. children identify causal relationships and patterns in the natural world from their evidence. Children encouraged to check the credibility of secondary sources used.

Planning different types of scientific enquiries to answer auestions. including recognising and controlling variables where necessary Children recognise how secondary sources can be used to answer questions that cannot be answered through practical work. **Taking** measurements,

using a range of

equipment, with

increasing accuracy

scientific

labelled diagrams, observational drawings, labelled scientific diagrams or writing. **Taking** measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Children select measuring equipment to give the most precise results. Using test results to make predictions to set up further comparative and fair tests Children use scientific knowledge gained from enquiries to make predictions they can investigate using

They record

They record

observations e.g.

photographs, videos,

using annotated

tables.

measurements using

that has been used to support or refute ideas or arguments Children answer questions based on their observations and information from secondary sources. **Planning different** types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Children recognise how secondary sources can be used to answer questions that cannot be answered through practical work. **Taking** measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Children consider the need to check

further secondary

comparative and fair They communicate their findings to an and precision, sources in order to audience using relevant scientific language taking repeat tests. ensure accurate and illustrations. readings when Reporting and data. **Reporting and** Children should evaluate the choice of appropriate presenting findings method used and the control of variables. Children consider the from enquiries, presenting findings, including The children identify any limitations that need to check further including reduce the trust they have in their data. conclusions. secondary sources in conclusions. Identifying scientific evidence that has order to ensure causal causal been used to support or refute ideas relationships and relationships and accurate data. Children answer questions based on explanations of explanations of and degree of trust observations they have made. When doing and degree of trust in results, in oral this, they decide whether evidence from in results, in oral other groups supports or refutes their and written forms and written forms answer. such as displays such as displays and other and other presentations presentations In their conclusions, Children children identify encouraged to causal relationships check the credibility from their evidence. of secondary identify results that sources used. do not fit the overall In their conclusions. pattern and explain children identify their findings using causal relationships their subject and patterns in the knowledge. natural world from They communicate the evidence. their findings to an identify results that audience using do not fit the overall relevant scientific pattern and explain their findings using language and illustrations. their subject Evaluate the choice knowledge. of method used, the control of variables, the precision and accuracy of measurements.

Y4
(knowledge
/ skills /
vocabulary

Sound

- Identify how sounds are made, associating some of 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 the strength of the vibrations that produced it.
- Recognise that sounds get fainter as the distance from the sound source increases.

Electricity

- 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 being good conductors.

• 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.

Animals including humans

- 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.

Living things and their habitats

- 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 of living things in their local and wider environment.
 Recognise that environments can change and that this can sometimes pose dangers to living things.

Sound, source,	Electricity, electrical	Solid, liquid, gas,	Digestive system,	Classification, classification keys,
vibrate, vibration,	appliance/device,	state change,	digestion, mouth,	environment, habitat, human impact,
travel, pitch (high,	mains, plug, electrical	melting, freezing,	teeth, saliva,	positive, negative, migrate, hibernate
low), volume, faint,	circuit, complete	melting point,	oesophagus,	
loud, insulation	circuit, component,	boiling point,	stomach, small	
•	cell, battery,	evaporation,	intestine, nutrients,	
	positive, negative,	temperature,	large	
	connect/connections,	water cycle	intestine, rectum,	
	loose connection,	,	anus, teeth, incisor,	
	short circuit, crocodile		canine, molar,	
	clip, bulb, switch,		premolars, herbivore,	
	buzzer,		carnivore, omnivore,	
	motor, conductor,		producer,	
	insulator, metal, non-		predator, prey, food	
	metal, symbol		chain	
Skills -	Skills –	Skills -	Skills -	Skills -
Asking relevant	Gathering,	Asking relevant	Making systematic	Asking relevant questions and using
questions and	recording,	questions and	and careful	different types of scientific enquiries to
using different	classifying and	using different	observations and,	answer them
types of scientific	presenting data in a	types of scientific	where appropriate,	Recognise when secondary sources can be
enquiries to answer	variety of ways to	enquiries to	taking accurate	used to answer questions that cannot be
them	help in answering	answer them	measurements	answered through practical work.
Given a range of	questions.	Recognise when	using standard	Gathering, recording, classifying and
resources, children	Recording findings	secondary sources	units, using a range	presenting data in a variety of ways to
decide for	using simple	can be used to	of equipment,	help in answering questions. Recording
themselves how to	scientific language,	answer questions	including	findings using simple scientific
gather evidence to	drawings, labelled	that cannot be	thermometers and	language, drawings, labelled diagrams,
answer the question.	diagrams, keys, bar	answered through	data loggers	keys, bar charts and tables
Making systematic	charts and tables	practical work.	Children make	Children record observations using pictures.
and careful	Children decide how	Gathering,	systematic and	Record classifications – sometimes using
observations and,	to record and present	recording,	careful observations.	Venn and Carroll diagrams.
where appropriate,	evidence.	classifying and	Children use	Setting up simple practical enquiries,
taking accurate	Children record	presenting data	equipment to	comparative and fair tests
measurements	classifications using	in a variety of	measure	Children carry out observations and tests to
using standard	Venn diagrams.	ways to help in	temperature. They	classify.
units, using a range	Record observations	answering	use standard units for	Reporting on findings from enquiries,
of equipment,	using pictures and	questions.	their measurements.	including oral and written explanations,
including	labelled diagrams.	Recording	Gathering,	displays or presentations of results and
		findings using	recording,	conclusions

Setting up simple classifying and Communicate findings to an audience in thermometers and simple scientific data loggers practical enquiries, presenting data in a writing, using appropriate scientific language. The children make comparative and fair variety of ways to drawings. vocabulary. labelled help in answering systematic and tests careful observations. Children plan to carry diagrams, keys, questions. The children use a out comparative tests. bar carts and **Recording findings** using simple data logger to Usina tables straightforward measure the volume. Record their scientific language, They use standard scientific evidence observations using drawings, labelled units for their labelled diagrams. diagrams, keys, bar to answer questions or to support their Reporting on charts and tables measurements. Setting up simple findings findings from Record practical enquiries, Children answer enquiries. classifications using comparative and scientific questions including oral a Venn diagram. fair tests based on and written Record observations Children plan to carry observations they explanations, using labelled out comparative have made, displays or diagrams and in presentations of writing. tests. measurements they have taken. The **Setting up simple** Carry out simple fair results and conclusions practical enquiries, tests. answers are Gathering. consistent with the Communicate their comparative and recording, evidence. findings to an fair tests classifying and Identifying audience both Children select from presenting data in a differences. orally and in a range of practical variety of ways to similarities or writing, using resources to gather help in answering evidence to answer changes related to appropriate simple scientific questions. scientific auestions. **Recording findings** ideas and processes vocabulary. They follow their plan using simple Interpret their data to Identifying to carry out fair tests. scientific language, generate simple differences. observations over drawings, labelled comparative similarities or time and pattern diagrams, keys, bar statements. They changes related seeking. charts and tables to simple begin to identify Usina naturally occurring scientific ideas or straightforward They record patterns and causal scientific evidence measurements using processes tables. relationships. Interpret their data to answer Identifying Using results to to generate simple questions or to differences. draw simple support their comparative similarities or conclusions, make statements. They findings

changes related to predictions for new begin to identify Children answer simple scientific values, suggest naturally occurring questions based on ideas and improvements and observations they patterns. raise further have made and Using processes Interpret their data to questions straightforward measurements they generate simple Draw conclusions scientific have taken. The based on their evidence to comparative answers are statements. They evidence and current answer questions consistent with the beain to identify subject knowledge. or to support evidence. Identify ways in which their findings Using results to naturally occurring patterns and causal they adapted their Children answer draw simple relationships. method as they questions based conclusions, make Using results to progressed or how on observations predictions for new draw simple they would do it they have made. values, suggest conclusions, make differently if they The answers are improvements and predictions for new repeated the enquiry. consistent with the raise further values, suggest Reporting on evidence. questions improvements and findings from **Making** Children draw enquiries, including systematic and raise further conclusions based on oral and written careful their evidence and **auestions** current subject They draw explanations. observations knowledge. conclusions based displays or and, where on their evidence presentations of Reporting on appropriate, and current subject results and findings from taking accurate enquiries, including knowledge. conclusions measurements Children oral and written Children identify using standard ways in which they communicate their units, using a explanations. adapted their method findings to an range of displays or as they progressed audience orally, using equipment, presentations of or how they would do appropriate scientific including results and it differently if they vocabulary. thermometers conclusions repeated the enquiry. and data loggers They communicate Children use their The children make their findings to an evidence to suggest systematic and audience both orally values for different careful and in writing, using observations. appropriate scientific items tested using Setting up simple the same method. vocabulary. Identifying Reporting on practical findings from enquiries, differences.

enquiries, including	comparative and	similarities or	
oral and written	fair tests	changes related to	
explanations,	Children follow	simple scientific	
displays or	their plan to carry	ideas and	
presentations of	out observations	processes	
results and	over time.	Children begin to	
conclusions	The children select	identify naturally	
They communicate	from a range of	occurring patterns	
their findings to an	practical resources	and causal	
audience in writing,	to gather evidence	relationships.	
using scientific	to answer		
vocabulary.	questions.		

Y3 (knowledge	Rocks and soils Compare and group together different	Animals including humans – nutrition	Forces and Magnets Compare how	Light • Recognise that they need light in order to	<u>Animals</u> <u>including</u> <u>humans</u> –	Plants • Identify and describe the
/ skills /						
/ skills / vocabulary)	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.	• 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.	Compare now things move on different surfaces. Notice that some forces need contact between two 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 two poles. Predict whether two magnets will attract or repel each other, depending on	need light in order to see things and that dark is the absence of light. Notice that 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.	skeletons and muscles Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. • Explore the requirements of plants for 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 part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.
			which poles are facing			

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	vitamins, minerals, fibre, fat, water	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	Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous	Skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints	Photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal (wind dispersal, animal dispersal, water dispersal)
Skills -	Skills -	Skills -	Skills -	Skills -	Skills -
Asking relevant	Gathering,	Gathering,	Asking relevant	Asking relevant	Asking relevant
questions and	recording,	recording,	questions and	questions and	questions and
using different	classifying and	classifying and	using different	using different	using different
types of scientific	presenting data in a	presenting data	types of scientific	types of scientific	types of scientific
enquiries to answer	variety of ways to	in a variety of	enquiries to answer	enquiries to	enquiries to
them	help in answering	ways to help in	them	answer them	answer them
Given a range of	questions.	answering	Children answer	The children	The children
resources, the	Recording findings	questions.	questions posed by	consider their prior	consider their prior
children decide for	using simple	Recording	the teacher.	knowledge when	knowledge when
themselves how to	scientific language,	findings using	Setting up simple	asking questions.	asking questions.
gather evidence to	drawings, labelled	simple scientific	practical enquiries,	They independently	They independently
answer the question.	diagrams, keys, bar	language,	comparative and	use a range of	use a range of
Children recognise	charts and tables	drawings,	fair tests	question stems.	question stems.
when secondary	Children record	labelled	Children carry out	Where appropriate,	Where appropriate,
sources can be used	classifications using	diagrams, keys,	comparative tests	they answer these	they answer these
to answer questions	Venn diagrams.	bar charts, and	and observations	questions.	questions.
that cannot be	Using	tables	over time.	The children	The children
answered through	straightforward	The children	Gathering,	recognise when	recognise when
practical work.	scientific evidence	sometimes decide	recording,	secondary sources	secondary sources
Gathering,	to answer questions	how to record and	classifying and	can be used to	can be used to
recording,	or support their	present evidence.	presenting data in a	answer questions	answer questions
classifying and	findings		variety of ways to	that cannot be	that cannot be

presenting data in a variety of ways to help in answering questions. **Recording findings** using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables The children record their observations using labelled diagrams. The children record their measurements using tables. Setting up simple practical enquiries, comparative and fair tests The children select from a range of practical resources to gather evidence to answer questions generated by the teacher. They follow their plan to carry out comparative tests. Identifying differences. similarities or changes related to simple scientific ideas and processes

Children answer their own and others' questions based on information they have gained from secondary sources. Children record classifications usina Venn diagrams and tables. Children record measurements using a table and a bar chart (given templates, if required). Children are supported to present the same data in different ways in order to help with answering the question. Setting up simple practical enquiries, comparative and fair tests Children plan to carry out observations and tests to classify and comparative tests. **Making** systematic and careful observations and, where appropriate,

taking accurate

measurements using standard

help in answering questions. **Recording findings** using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Children record classifications using Venn diagrams. Children record measurements using tables. Children record observations using photographs/pictures. Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further **auestions** Children use their evidence to suggest values for different items tested using the same method. Children draw conclusions based on their evidence and current subject

knowledge.

answered through practical work. Gathering. recording, classifying, and presenting data in a variety of ways to help in answering auestions. **Recording findings** using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Record classifications using tables. Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Following a scientific experience, the children ask further questions which can be answered by extending the same enquiry.

answered through practical work. Gathering. recording, classifying, and presenting data in a variety of ways to help in answering questions. **Recording findings** using simple scientific language. drawings, labelled diagrams, keys, bar charts, and tables Record classifications using tables. Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Following a scientific experience, the children ask further questions which can be answered by extending the same enquiry. Setting up simple practical enquiries,

Children interpret	units, a range of	comparative and
their data to generate	equipment,	fair tests
simple comparative	including	Children carry out
statements based on	thermometers	pattern seeking.
their evidence. They	and data loggers	
begin to identify	Children use	
causal relationships.	equipment for	
Making systematic	measuring length.	
and careful	They use standard	
observations and,	units for their	
where appropriate,	measurements –	
taking accurate	cm/m.	
measurements	Using	
using standard	straightforward	
units, using a range	scientific	
of equipment,	evidence to	
including	answer questions	
thermometers and	or to support	
data loggers	their findings	
Children use	Children answer	
equipment to	their own and	
measure capacity.	others' questions	
Using	based on	
straightforward	observations they	
scientific evidence	have made.	
to answer	Using results to	
questions or to	draw simple	
support their	conclusions,	
findings	make predictions	
Children answer their	for new values,	
own and others'	suggest	
questions based on	improvements	
observations they	and raise further	
have made and	questions	
measurements they	Children draw	
have taken. The	conclusions based	
answers are	on their evidence	
consistent with the	and current	
evidence.		

subject
knowledge.
Children identify
ways in which they
adapted their
method as they
progressed or how
they would do it
differently if they
repeated the
enquiry.
Asking relevant
questions and
using different
types of scientific
enquiries to
answer them
Given a range of
resources, the
children decide for
themselves how to
gather evidence to
answer the
question. They
identify the type of
enquiry that they
have chosen to
answer their
question.

Y2 (knowledge / skills / vocabulary)

Living Things and Their Habitats

- 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 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 microhabitats.
- 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.

Fighting Fit – Animals, including humans

- 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

Plants and Living Things

- 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.

Materials and Their 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.

	Living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed Names of local habitats e.g. pond, woodland etc. Names of micro-habitats e.g. under logs, in bushes etc.	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)	As for Year 1 plus light, shade, sun, warm, cool, water, grow, healthy	Names of materials - wood, metal, plastic, glass, brick, rock, paper, cardboard Properties of materials – as for Year 1 plus opaque, transparent and translucent, reflective, non- reflective, flexible, rigid Shape, push/pushing, pull/puling, twist/twisting, squash/squashing, bend/bending, stretch/stretching
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Skills -

Asking simple questions and recognising that they can be answered in different ways

The children are involved in planning how to use resources provided to answer the questions using different types of enquiry, helping them to recognise that there are different ways in which questions can be answered.

Identifying and classifying

Children use their observations and testing to compare objects, materials and living things. Gathering and recording data to help in

answering questions

Children record their observations in writing. They classify using simple prepared tables and sorting rings.

Children record their measurements using tally charts, pictograms and block graphs. Using their observations and ideas to suggest answers to questions

Children use their experiences of the world around them to suggest appropriate answers to questions. They are supported to relate these to their evidence – observations they have made and information they have gathered from secondary sources. Children recognise 'best and worst' from their data.

Skills -

Asking simple questions and recognising that they can be answered in different ways

The children develop their ability to ask auestions.

The children are involved in planning how to use resources provided to answer questions using different types of enquiry, helping them to recognise that there are different ways in which questions can be answered.

Identifying and classifying

The children sort and group objects, identifying their own criteria for sorting. Gathering and recording data to help in answering questions

They classify using simple prepared tables and sorting rings.

Children record observations using photographs, videos, drawings and writing. **Performing simple tests**

Children use practical resources provided to gather evidence to answer questions. They make observations over time and carry out comparative tests. They also complete pattern seeking enquiries. Observing closely, using simple

equipment

Children make careful observations to support them in noticing change. They use appropriate senses, aided by digital microscopes, to make their observations.

Using their observations and ideas to suggest answers to questions

Children use their experiences of the world around them to suggest appropriate answers to questions. They are supported to relate these to their evidence -

Skills -**Asking simple** questions and recognising that they can be answered in different ways

The children are involved in planning to how to use resources provided to answer the question using different types of enquiry, helping them to recognise that there are different ways in which questions can be answered. Identifying and

classifying Children use their

observations to

compare objects. They sort and group these things, identifying their own criteria for sorting. Observing closely, using simple equipment Explore the word

around them and make careful observations using their senses and digital microscopes.

Skills -**Asking simple** questions and recognising that they can be answered in different ways

Children plan how to use resources provided to answer the questions using different types of enquiry, helping them to recognise that there are different ways in which questions can be answered.

Identifying and classifying

Children use their observations to compare objects and materials. They sort and group these things, identifying their own criteria for sorting.

Gathering and recording data to help in answering auestions Record observations

in writing. **Using their** observations and ideas to suggest answers to auestions

	information they have gained from secondary sources.	Take measurements using non-standard units. Performing simple tests The children use practical resources provided to gather evidence to answer questions generated. They carry out comparative tests, pattern seeking enquiries and make observations over time. Use their observations and ideas to suggest answers to questions Children use their experiences of the world around them to suggest appropriate answers to questions. They are supported to relate these to their evidence — observations they have made and measurements they have made. Children recognise	Children use their experiences of the world around them to suggest appropriate answers to questions. They are supported to relate these to their evidence — observations they have made. Chest recognise 'best and worst'. Performing simple tests Use practical resources provided to gather evidence to answer questions. They carry out tests to classify and comparative tests.
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				help in answering questions Record observations as drawings and in writing. Children record their measurements using prepared tables and block graphs.	
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Y1	Animals including	Seasonal change	<u>Plants</u>	<u>Materials</u>
	<u>humans</u>	(and then	 Identify and name a variety of common 	Distinguish between an object and the
(knowledge	 Identify and name a 	<u>ongoing)</u>	wild and garden plants, including	material from which it is made.
/ skills /	variety of common	 Observe changes 	deciduous and evergreen trees.	Identify and name a variety of everyday
•	animals including	across the four	Identify and describe the basic structure	materials, including wood, plastic, glass,
vocabulary)	fish, amphibians,	seasons.	of a variety of common flowering plants,	metal, water, and rock.
, ,	reptiles, birds and	Observe and	including trees	Describe the simple physical properties of
	mammals.	describe weather		a variety of everyday materials. • Compare and group together a variety of
	Identify and name a	associated with the		everyday materials on the basis of their
	variety of common animals that are	seasons and how day		simple physical properties.
	carnivores,	length varies.		omple physical properties.
	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.			
	with cath sense.			

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
Senses - touch, see
smell, taste, hear,
fingers (skin), eyes,
nose, ear
and tongue

Weather (sunny, rainy, windy, snowy etc.)
Seasons (winter, summer, spring, autumn)
Sun, sunrise, sunset, day length

Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud

Names of trees in the local area
Names of garden and wild flowering plants
in the local area

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

Skills – Observe closely, using simple equipment

Children explore the world around them using appropriate senses – touch, see, smell and hear.
Children begin to take measurements by comparisons.

Identifying and classifying

Children use their observations to compare living things. They sort and group these things, identifying their own criteria for sorting.

Skills – Observe closely, using simple equipment

Children explore the world around them. They make careful observations to support them in noticing change.

Ask questions and

Ask questions and recognise these can be answered in different ways

The children answer questions developed with the teacher often through a scenario. The children are involved in planning how to use resources provided to answer

Skills – Observe closely, using simple equipment

Children explore the world around them. They make careful observations to support identification and comparison. They use appropriate senses, aided by magnifying glasses, to make their observations.

Perform simple tests

The children use practical resources provided to gather evidence to answer questions generated by themselves or the teacher. They carry out tests to make observations over time.

Identifying and classifying

Children use their observations to compare living things. They sort and group these things, identifying their own criteria for sorting.

They use simple secondary sources (such as identification sheets) to name living

Skills -

Perform simple tests

Children use practical resources provided to gather evidence to answer questions. They carry out comparative tests.

Identifying and classifying

Children use their observations and testing to compare objects and materials.

They sort and group these things based on their own criteria.

Gathering and recording data to help in answering questions

Children record observations in writing. They record their measurements using prepared tables.

They classify using simple prepared tables and sorting rings.

Using their observations and ideas to suggest answers to questions

Children use their experiences of the world around them to suggest appropriate answers to questions. They are supported

Gathering and recording data to help in answering questions
Children record the observations using drawings and

Children record their observations using drawings and labelled diagrams. Children classify using simple prepared tables and sorting rings.

Using their observations and ideas to suggest answers to questions
Children recognise the 'biggest and

the questions using different types of enquiry.

enquiry.
Identifying and
classifying
Children use their
observations to
compare living things.
They sort and group
these things,
identifying their own
criteria for sorting.
Gathering and
recording data to
help in answering

questions

The children record

their measurements

using pictograms.

they used to identify a living thing.

Gathering and recording data to help in answering questions

The children record their observations

things. They describe the characteristics

The children record their observations using drawings and labelled diagrams.

They classify using simple prepared tables and sorting rings.

to relate these to their evidence e.g. observations they have made. The children recognise 'best and worst' from their data.

Science in EYFS.

Characteristics of Effective Learning (CofEL)

Playing and Exploring

Realise that their actions have an effect on the world, so they want to keep repeating them.

Plan and think ahead about how they will explore or play with objects.

Guide their own thinking and actions by referring to visual aids or by talking to themselves whilst playing.

Make independent choices.

Bring their own interests and fascinations into early years settings.

Respond to new experiences that you bring to their attention.

smallest'.

Active Learning

Begin to predict sequences because they know routines.

Begin to correct their mistakes themselves.

Keep on trying when things are difficult.

Take part in simple pretend play.
Sort materials.
Review their progress as they try to achieve a goal.
Solve real problems.
Know more, so feel confident about coming up with their own ideas.

Make more links between those ideas.	
Concentrate on achieving something that's important to them. Birth to 5 Matters.	Development Matters.
Range 3 and 4 (Nursery) Range 3: Understanding the World	3 &4 year olds (Nursery) Use all their senses in hands-on exploration of natural materials (UW). Explore collections of materials with similar and/or different properties. (UW).
 Exploration and Curiosity: Begins to explore and respond to different natural phenomena in their environment, such as water, light, or shadows. Noticing Changes: Shows interest in objects, materials, and how things work, experimenting with actions like pushing, pulling, or dropping. Engaging with Nature: Enjoys exploring the outdoors and noticing features such as plants, animals, or weather changes. 	Talk about what they see, using a wide vocabulary. (UW). Plant seeds and care for growing plants. (UW). Understand the key features of the life cycle of a plant and an animal. (UW). Begin to understand the need to respect and care for the natural environment and all living things. (UW).
Expressive Arts and Design	Explore and talk about different forces they can feel. (UW).
s to explore objects and materials, noticing differences in textures, sounds, bearances.	Talk about the differences between materials and changes they notice. (UW).
Range 4: Understanding the World	
 Cause and Effect: Explores cause-and-effect relationships, such as pressing a button to see a light come on or pouring water to see it flow. Observation Skills: Notices detailed features of objects, living things, and the natural world, such as the shape of leaves, the color of flowers, or the behavior of animals. 	

- Awareness of Change: Shows interest in and curiosity about changes over time, such as seeds growing into plants or ice melting.
- **Environmental Engagement**: Shows curiosity about the natural environment, talking about what they see, hear, or feel, such as the wind is blowing or the bird is chirping.

Physical Development

 Hands-On Exploration: Develops fine motor skills through physical engagement with natural materials like sand, soil, water, or leaves.

Range 5 & 6 (Reception)

Range 5:

Understanding the World

- Exploring Natural Phenomena: Explores and talks about forces and how things work, such as why objects float or sink, or how magnets attract.
- Noticing Changes: Observes and comments on the changes they see in the environment, like leaves changing color or the weather becoming colder.
- **Animal and Plant Awareness**: Develops an interest in living things, observing animals and plants, and talking about features like shapes, sizes, or colors.
- Cause and Effect: Explores and begins to understand causeand-effect relationships, such as what happens when water is poured, sand is dug, or seeds are planted.
- Materials and Properties: Shows curiosity about different materials, exploring their textures, shapes, and uses, and identifying similarities or differences.

Children in Reception

Explore the natural world around them (UW).

Describe what they see, hear and feel whilst outside. (UW).

Recognise some environments that are different from the one in which they live. (UW).

Understand the effect of changing seasons on the natural world around them. (UW).

Communication and Language

 Uses a widening vocabulary to talk about what they see, hear, and experience, including terms like soft, hard, wet, dry, growing, or changing.

Range 6:

Understanding the World

- **Living Things and Habitats**: Talks about similarities and differences in living things, exploring their habitats and how they meet their needs (e.g., animals in water or on land).
- **Observation and Explanation**: Notices, observes, and explains changes in the natural world, such as the growth of plants, melting ice, or changes in the weather.
- **Scientific Inquiry**: Explores and questions how things work, such as what makes wheels roll or how shadows are formed, beginning to make simple predictions.
- Sustainability and Care: Develops an understanding of how to care for the environment, such as watering plants, feeding birds, or picking up litter.
- **Seasons and Weather**: Recognises and talks about patterns in weather and seasons, identifying how they affect people, animals, and plants.

Physical Development

 Engages in activities that develop fine motor skills while exploring scientific materials, such as planting seeds, digging soil, or sorting objects by size or texture.

Early Learning Goals (ELG).

- Explore the natural world around them, making observations and drawing pictures of animals and plants. (UW The Natural World)
- 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. (UW The Natural World)

• Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. (UW – The Natural World)

What Science Looks like in Nursery

In nursery, science is woven into everyday experiences, fostering curiosity, exploration, and observation of the natural and physical world. Children use all their senses to investigate natural materials, noticing textures, colors, and patterns, and engage with collections of objects to compare properties like hard and soft or heavy and light. They observe and discuss changes, such as seeds growing, ice melting, or leaves changing color, building an understanding of cause and effect. Outdoor play is integral, offering opportunities to explore weather, seasons, and local wildlife, encouraging respect and care for living things and the environment. Children experiment with forces, such as pushing and pulling or rolling objects, and explore contrasting environments, like comparing parks and beaches. Practitioners model rich vocabulary. supporting children to describe what they see, hear, and feel, while playful, hands-on activities lay the foundation for scientific thinking and inquiry. Through these experiences, science in nursery becomes an exciting and meaningful part of their world.

By the End of Nursery, a Child at the Expected Level of Development Will Know By the end of Nursery, a child at the expected level of development in science will have developed a strong sense of curiosity about the world around them. They will have explored and observed living things, such as plants, animals, and insects, showing interest in how they grow and change. Children will notice and talk about changes in their environment, such as the weather, the seasons, or how materials like ice or water behave. They will begin to understand cause and effect, such as noticing that things float or sink or that plants need water to grow. Through hands-on exploration, they will have used their senses to investigate natural materials and will be able to describe their observations using simple scientific language like wet, dry, big, small, soft, or rough. Children will begin to care for living things and the environment, showing respect for nature and understanding basic concepts of change and growth. They will express their ideas with increasing confidence, using their growing vocabulary to talk about what they see and experience in the natural world.

What Science Looks like in Reception.

In Reception, science becomes a more focused and purposeful exploration of the world, building on children's natural curiosity. Children begin to ask questions about how and why things happen, using their observations and experiences to make simple predictions and explanations. They explore changes in the natural world, such as how plants grow, how weather changes over time, and how animals and people adapt to their environments. Hands-on investigations, like planting seeds, experimenting with water, or observing living creatures, help children develop a deeper understanding of living things, materials, and forces. They begin to use scientific vocabulary to describe their findings, such as growing, changing, heavier, lighter, cold, and hot. Through guided discovery and practical activities, children learn to make observations, notice patterns, and talk about the relationships between cause and effect. Science in Reception emphasises exploration, enquiry. and experimentation, supporting children's developing understanding of the world around them and nurturing their ability to think like young scientists.

By the End of Reception, a Child at the Expected Level of Development Will Know.

By the end of Reception, a child at the expected level of development in science will have a growing understanding of the natural world and the changes around them. They will be able to observe and describe how plants and animals grow, change, and adapt to their environments, using simple scientific vocabulary like *growth*, *lifecycles*, *habitat*, and *seasons*. Children will understand basic concepts of force and motion, such as pushing, pulling, and the effects of gravity. They will have explored and noticed the properties of materials, identifying whether things are hard, soft, rough, or smooth, and how they change, like water turning to ice. Children will demonstrate an understanding of cause and effect through experiments and observations, such as recognising the need for light and water for plant growth. They will be able to make simple predictions and express their ideas using appropriate vocabulary. Through hands-on exploration and enquiry, they will develop a sense of wonder and an understanding of how things work, while also showing respect for the environment and living things.

Scientific Specific Vocabulary Nursery

Explore, Investigate, Observe, Look, Touch, Feel, See, Hear, Smell, Taste

Hard, Soft, Smooth, Rough, Wet, Dry, Cold, Hot, Heavy, Light, Bumpy, Sticky, Squishy, Shiny, Fluffy, Crunchy, Warm

Plant, Tree, Flower, Leaf, Seed, Roots, Grow, Petal, Fruit, Vegetable, Animal, Insect, Bug, Bird, Fish, Dog, Cat, Butterfly, Ladybird

Sky, Sun, Cloud, Rain, Snow, Wind, Mud, Sand, Soil, Water, Ice, Shadow, Light, Snow

Change, Grow, Grow bigger, Shrink, Change shape, Melt, Freeze, Harder, Soften, Hotter, Colder

Why?, Because, Happen, Effect, Action, Reaction, Push, Pull

Roll, Slide, Bounce, Float, Sink, Jump, Fly

Up, Down, Under, Over, In, Out, On, Off, Next to, Behind, In front of

Sunny, Rainy, Windy, Cloudy, Cold, Hot, Dry, Wet, Stormy

Magnifying glass, Binoculars, Telescope, Bucket, Shovel, Watering can

Scientific Specific Vocabulary Reception

Explore, Investigate, Observe, Look, Touch, Feel, See, Hear, Smell, Taste, Question, Predict, Explain

Hard, Soft, Smooth, Rough, Wet, Dry, Cold, Hot, Heavy, Light, Bumpy, Sticky, Squishy, Shiny, Fluffy, Crunchy, Warm, Transparent, Opaque, Flexible, Brittle, Absorb, Float, Sink

Plant, Tree, Flower, Leaf, Seed, Roots, Stem, Petal, Fruit, Vegetable, Animal, Insect, Bug, Bird, Fish, Dog, Cat, Butterfly, Ladybird, Habitat, Lifecycles, Grow, Decay, Feed, Care, Alive, Dead

Sky, Sun, Cloud, Rain, Snow, Wind, Mud, Sand, Soil, Water, Ice, Shadow, Light, Weather, Moon, Stars, Day, Night, Seasons (Spring, Summer, Autumn, Winter)

Change, Grow, Grow bigger, Shrink, Change shape, Melt, Freeze, Harder, Soften, Hotter, Colder, Ripen, Germinate, Grow taller, Sprout, Blossom

Why?, Because, Happen, Effect, Action, Reaction, Push, Pull, Force, Motion, Bounce, Roll, Move

Roll, Slide, Bounce, Float, Sink, Jump, Fly, Twist, Spin, Stretch, Squeeze, Expand

Up, Down, Under, Over, In, Out, On, Off, Next to, Behind, In front of, Between, Above, Below, Around, Through

Sunny, Rainy, Windy, Cloudy, Cold, Hot, Dry, Wet, Stormy, Foggy, Lightning, Thunder, Freezing, Melting, Temperature

Magnifying glass, Binoculars, Telescope, Bucket, Shovel, Watering can, Microscope, Ruler, Scale, Thermometer, Sandpaper, Sponge, Tongs