Science	Foundation	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	stage						
			mary National	The 2014 Pri	•	The 2014 Primary National	
		Curriculum states:		Curriculur			um states:
		The principle focu		The principle focu		The principle foc	
		pupils to experien		pupils to broaden ·		pupils to develop	•
		phenomena, lookin		view of the world		understanding of	-
		theworld around	them. They	They should do th	is through	scientific ideas.	They should do this
		should be encoura	ged to be curious	exploring, talking	about, testing and	through explorin	g and talking about
		and ask questions.	They should be	developing ideas a	bout everyday	their ideas; askir	ng their own
		helped to develop		phenomena and th	•	questions about s	scientific
		understanding of s	scientific ideas by	between living thin	ngs and familiar	phenomena and a	nalysing functions,
		using different ty	pes of scientific	environments, and by beginning to		relationships and interactions more	
		enquiry to answer their own		develop their ideas about functions,		systematicallyThey should	
		questions, including:		relationships and i	•	encounter more abstract ideas and	
		 Observing 	changes over a	should ask their o	wn questions	begin to recognise how these ideas	
		period of	time	about what they o	about what they observe and make		erstand and
		 Noticing p 	atterns	some decisions about which types		predict how the world operates.	
		 Grouping a 	nd classifying	of scientific enqui	ry are likely to be	They should	
		 Carrying o 	ut simple	the best ways of a	inswering them,	also begin to rec	ognise that
		comparativ	ve tests	including:			hange and develop
		 Finding this 	ings out using	 Observing 	changes over a	over time. They s	should select the
		secondary	sources of	period of t	time	most appropriate	e ways to answer
		informatio	n	 Noticing p 	atterns	science questions	s using different
		They should begin	to use simple	 Grouping a 	nd classifying	types of scientif	ic enquiry,
		scientific language	eand	 Carrying o 	ut simple	including:	
		communicate their	r ideas to a range	comparativ	ve and fair tests	 Observin 	g changes over
		of audiences in a v	variety of ways.	 Finding this 	ngs out using	differen	t periods of time
		Pupils should read	•	secondary	sources of	 Noticing 	patterns
		scientific vocabula	ary at a level	informatio	n	 Grouping 	and classifying
		consistent with th	eir increasing	They should draw	simple conclusions	things	
		word reading and	spelling level.	and use some scier	ntific language,	Carrying	out comparative
				first, to talk abou	t and, later, to	and fair t	tests

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
		Most of the learni should be done the practical experien should also be som appropriate secon	roughfirst hand, ces, but there he use of		read and spell ary correctly and using their growing	 Finding things out using a wide range of secondary sources of information They should draw conclusions based on their data and observations, use evidence to justify their ideas and use their scientific knowledge to and understanding to explain their findings. Pupils should read, spell and pronounce scientific vocabulary correctly. 	
		Working Scientifically 'Working scientifically' must always be taught through andrelated to the teaching ofscience content in the programme of study. During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: I asking simple questions and recognising that they can be answered in different ways		Working Scientifi 'Working scientifi be taught through substantive scient programme of stu During years 3 an be taught to use to practical scientifi processes and ski teaching of the pu study content: asking relevant using different ty enquiries to answe	ically' must always n andrelated to ce content in the idy. d 4, pupils should the following ic methods, lls through the rogramme of questions and ypes of scientific	be taught throug substantive scien programme of st During years 5 at be taught to use practical scientif processes and sk teaching of the p study content:] planning differ scientific enquiri questions, includ controlling variat	fically' must always th andrelated to nee content in the udy. nd 6, pupils should the following fic methods, tills through the programme of rent types of tes to answer ing recognising and

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
		I observing closely equipment I performing simp I identifying and a I using their observing ideas to suggest a questions I gathering and response in the point of the point o	le tests classifying ervations and nswers to ecording data to	using a range of e including thermom loggers gathering, recom and presenting da ways to help in an recording findin scientific language labelled diagrams, and tables reporting on find	ative and fair tic and careful where g accurate ng standard units, quipment, neters and data rding, classifying ta in a variety of swering questions gs using simple e, drawings, keys, bar charts, dings from g oral and written lays or results and draw simple predictions for st improvements questions erences, inges related to	and precision, tak readings when ap l recording data increasing comple scientific diagram classification key graphs, bar and li l using test resu predictions to se comparative and t reporting and p from enquiries, in conclusions, cause explanations of a	ncreasing accuracy king repeat propriate and results of exity using ns and labels, vs, tables, scatter ine graphs alts to make t up further fair tests resenting findings al relationships and nd degree of trust and written forms and other entific evidence ed to support or

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
				Uusing straightfo evidence to answe support their find	r questions or to		
Autumn 1	Seasonal	Parts of	Living Things	Movement	Electricity	Earth And	Our Bodies
	Change	Animals	(Biology)	and Feeding	(Physics)	Space	(Biology)
	Nursery and Reception Throughout the year, children should experience seasonal change through play and exploring outside in all seasons and in different weather. They should observe living things throughout the year	(Biology) K Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. K Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) WSObserving closely, using simple equipment WSPerforming simple tests WSIdentifying and classifying	KExplore and compare the differences between things that are living, dead, and things that have never been alive KNotice that animals, including humans, have offspring which grow into adults WSIdentifying and classifying WSUsing their observations and ideas to suggest answers to questions WSGathering and recording data to help in answering questions. WSObserving closely, using simple equipment	(Biology) KIdentify 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 KIdentify that humans and some other animals have skeletons and muscles for support, protection and movement. WSGathering, recording, classifying and presenting data in a variety of ways to help in answering questions WSAsking relevant questions and using different types of scientific enquiries to answer them	KIdentify common appliances that run on electricity KConstruct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers KIdentify 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 KRecognise some common conductors and insulators, and associate metals with being good conductors. KRecognise that a switch opens and closes a circuit and associate this with	 (Physics) KDescribe the Sun, Earth and Moon as approximately spherical bodies KDescribe the movement of the Earth, and other planets, relative to the Sun in the solar system KUse the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. KDescribe the movement of the Moon relative to the Earth WSIdentifying scientific evidence that has been used to support or refute ideas or arguments. WSPlanning different types of scientific enquiries to answer 	KIdentify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood KDescribe the ways in which nutrients and water are transported within animals, including humans. KRecognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function WSPlanning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	Ourselves and our homes Nursery and Reception Learn about the lifecycle of humans. Learn how to take care of themselves. Learn about their senses. Identify electrical devices. Use battery powered devices. Talk about keeping safe around electricity. Reception Describe people who are familiar to them. Learn about how to take care of themselves.			WSS Setting up simple practical enquiries, comparative and fair tests WSMaking systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers WSUsing results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions WSUsing straightforward scientific evidence to answer questions or to support their findings.	whether or not a lamp lights in a simple series circuit WSRecording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables WSUsing results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions WSUsing straightforward scientific evidence to answer questions or to support their findings. WSAsking relevant questions and using different types of scientific enquiries to answer them WSIdentifying differences, similarities or changes related to simple scientific ideas and processes	questions, including recognising and controlling variables where necessary WS Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs WS Using test results to make predictions to set up further comparative and fair tests	WSTaking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate WSReporting 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

Science	

Foundation

stage

YEAR 5

Autumn 2 Materials	Identifying	Uses of	Light and	Dangers To	Life Cycles	Light And
	Materials	Materials	Shadows	Living Things	(Biology)	Sight
Nursery and	(Chemistry)	(Chemistry)	(Physics)	(Biology)	K Describe the	(Physics)
Nursery andReceptionExplore a rangeof materials,Shape and joinmaterials,Combine andmixingredients,Changematerials byheating andcoolingincludingcookingReceptionExplore a rangeof materialsincludingnaturalmaterials,Make objectsfrom differentmaterials,includingnaturalmaterials,Observemeasure andrecord howmaterials	(Cnemistry) K Distinguish between an object and the material from which it is made K Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock WSObserving closely, using simple equipment WSIdentifying and classifying WSPerforming simple tests WSAsking simple questions and recognising that they can be answered in different ways WSUsing their observations and ideas to suggest answers to questions WSGathering and recording data to	(Cnemistry) KIdentify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses WSIdentifying and classifying WSAsking simple questions and recognising that they can be answered in different ways WSObserving closely, using simple equipment WSPerforming simple tests WSUsing their observations and ideas to suggest answers to questions WSGathering and recording data to	 (Physics) KRecognise that they need light in order to see things and that dark is the absence of light KNotice that light is reflected from surfaces KRecognise that shadows are formed when the light from a light source is blocked by a solid object KRecognise that light from the sun can be dangerous and that there are ways to protect their eyes KFind patterns in the way that the size of shadows change. WSSetting up simple practical enquiries, comparative and fair tests WSGathering, recording, classifying and 	(BIOIOGY) K Recognise that environments can change and that this can sometimes pose dangers to living things. K Construct and interpret a variety of food chains, identifying producers, predators and prey. WSAsking relevant questions and using different types of scientific enquiries to answer them WSGathering, recording, classifying and presenting data in a variety of ways to help in answering questions WSSetting up simple practical enquiries, comparative and fair tests WSUsing straightforward	differences in the life cycles of a mammal, an amphibian, an insect and a bird KDescribe the changes as humans develop to old age. KDescribe the life process of reproduction in some plants and animals. WSPlanning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary WSTaking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate	 (Physics) K 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 K Recognise that light appears to travel in straight lines K 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 K 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 K 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 K Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. WS Recording data and results of increasing complexity using

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	change when heated and cooled, Compare how materials change over time and in different conditions.	help in answering questions.	help in answering questions.	presenting data in a variety of ways to help in answering questions WS Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions WS Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers WS Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions	scientific evidence to answer questions or to support their findings.	WSUsing test results to make predictions to set up further comparative and fair tests WSReporting 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 WSRecording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs WSIdentifying scientific evidence that has been used to support or refute ideas or arguments.	scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs WSPlanning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary WSTaking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate

Science Foundationstage	n YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Spring 1 Light and	Comparing	Changing	Magnets and	Human	Separating	Classifying
Shadow	Materials	Shape	Forces	Nutrition	Mixtures	Living Things
	(Chemistry)	(Chemistry)	(Physics)	(Biology)	(Chemistry)	(Biology)
Nursery ar reception Explore light sources, Shine light or or through different materials Reception Explore shadows, explore rainbows	d KDescribe the simple physical properties of a variety of everyday materials	K Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. WSIdentifying and classifying WSAsking simple questions and recognising that they can be answered in different ways WSObserving closely, using simple equipment WSPerforming simple tests WSGathering and recording data to help in answering questions.	KCompare how things move on different surfaces KNotice that some forces need contact between two objects, but magnetic forces can act at a distance KDescribe magnets as having two poles KPredict whether two magnets will attract or repel each other, depending on which poles are facing. KObserve how magnets attract or repel each other and attract some materials and not others KCompare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and	KDescribe the simple functions of the basic parts of the digestive system in humans KIdentify the different types of teeth in humans and their simple functions WSAsking relevant questions and using different types of scientific enquiries to answer them WSSetting up simple practical enquiries, comparative and fair tests WSReporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions WSUsing results to draw simple	KUse knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating KKnow that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution WSPlanning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary WSRecording data and results of increasing complexity using scientific diagrams and labels, classification keys,	KDescribe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- organisms, plants and animals KGive reasons for classifying plants and animals based on specific characteristics. WSIdentifying scientific evidence that has been used to support or refute ideas or arguments. WSTaking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
				to answer questions or to support their findings. WS Identifying differences, similarities or changes related to simple scientific ideas and processes WS Asking relevant questions and using different types of scientific enquiries to answer them			comparative and fair tests
Spring 2	Sound	Changing	Feeding and	Rocks and	Sound	Types of	Changing
		Seasons	Exercise	Soils	(Physics)	Change	Circuits
	Nursery and Reception Listen to sounds, Make sounds Reception Listen to sounds outside and identify the source, Make sounds	(Biology / Physics) KObserve changes across the four seasons KObserve and describe weather associated with the seasons and how day length varies. WSObserving closely, using simple equipment WSUsing their observations and ideas to suggest	(Biology) KFind out about and describe the basic needs of animals, including humans, for survival (water, food and air) KDescribe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name	(Chemistry) Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties CDescribe in simple terms how fossils are formed when things that have lived are trapped within rock Recognise that soils are made	KIdentify how sounds are made, associating some of them with something vibrating KRecognise that vibrations from sounds travel through a medium to the ear KFind patterns between the pitch of a sound and features of the object that produced it	(Chemistry) Chemistry) Comparison of the second state are reversible changes Cha	(Physics) KUse recognised symbols when representing a simple circuit in a diagram. KAssociate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit KCompare and give reasons for variations in how components

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	Earth and Space Reception Learn about the Earth, Sun, Moon, Planets and stars, Learn about space travel.	answers to questions WS Gathering and recording data to help in answering questions. WS Asking simple questions and recognising that they can be answered in different way	different sources of food. K Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. WS Identifying and classifying WS Performing simple tests WS Gathering and recording data to help in answering questions.	from rocks and organic matter. WSMaking systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers WSSetting up simple practical enquiries, comparative and fair tests	K Find patterns between the volume of a sound and the strength of the vibrations that produced it K Recognise that sounds get fainter as the distance from the sound source increases. WS Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions WS Setting up simple practical enquiries, comparative and fair tests WS Identifying differences, similarities or changes related to simple scientific ideas and processes	action of acid on bicarbonate of soda. WS Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate WS Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs WS 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 WS Identifying scientific evidence that has been used	function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches WS Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs WS Identifying scientific evidence that has been used to support or refute ideas or arguments. WS Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary WS Using test results to make predictions to set up further comparative and fair tests

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
						to support or refute ideas or arguments. WSUsing test results to make predictions to set up further comparative and fair tests WSPlanning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	WSReporting 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 WSTaking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
Summer 1	Living Things – animals excluding humans Nursery and Reception Learn about the life cycles of animals,	Plants (Biology) KIdentify and name a variety of common wild and garden plants, including deciduous and evergreen trees KIdentify and describe the basic structure of a variety of common	Growing Plants (Biology) Cobserve and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to	What Plants Need (Biology) KExplore 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	Grouping Living Things (Biology) K Recognise that living things can be grouped in a variety of ways K Explore and use classification keys to help group, identify and name a variety of living things in their local	Materials (Chemistry) KCompare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and	Evolution And Inheritance (Biology) KRecognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	Compare adult animals to their babies, Observe how baby animals change over time. Reception Name and describe animals that live in different habitats, Describe different habitats.	flowering plants, including trees. WSObserving closely, using simple equipment WSIdentifying and classifying WSGathering and recording data to help in answering questions.	grow and stay healthy. WSObserving closely, using simple equipment WSAsking simple questions and recognising that they can be answered in different ways WSPerforming simple tests WSUsing their observations and ideas to suggest answers to questions	WSGathering, recording, classifying and presenting data in a variety of ways to help in answering questions WSRecording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables WSMaking systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers WSUsing results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions WSIdentifying differences, similarities or	and wider environment WSRecording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables WSMaking systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers WSGathering, recording, classifying and presenting data in a variety of ways to help in answering questions WSReporting on findings from enquiries, including oral and written explanations, displays or presentations of	response to magnets Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic WSRecording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs WSReporting 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 WSIdentifying scientific evidence that has been used to support or refute ideas or arguments.	millions of years ago KRecognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents KIdentify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. WSIdentifying scientific evidence that has been used to support or refute ideas or arguments. WSPlanning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary WSReporting and presenting findings from enquiries, including conclusions, causal

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
				changes related to simple scientific ideas and processes WS Setting up simple practical enquiries, comparative and fair tests WS Using straightforward scientific evidence to answer questions or to support their findings. WS Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	results and conclusions WSUsing straightforward scientific evidence to answer questions or to support their findings.	WSPlanning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary WSTaking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate WSUsing test results to make predictions to set up further comparative and fair tests	relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
Summer 2	Living	Types of	Habitats	Parts of	Changes of	Forces	Review,
	Things and	Animals	(Biology)	Plants	State	(Physics)	consolidate
	their habitats	(Biology) KIdentify and name a variety of common animals	KIdentify that most living things live in habitats to which they are suited and describe how	(Biology) KIdentify and describe the functions of	(Chemistry) Compare and group materials together, according	KExplain that unsupported objects fall towards the Earth because of the force of	and assess WSIdentifying scientific evidence that has
	Nursery and Reception	including fish, amphibians,	different habitats provide for the basic needs of	different parts of flowering plants:	to whether they are solids, liquids or gases	gravity acting between the Earth	been used to support or refute

Science Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
StageExplore the surrounding natural environment, 	reptiles, birds and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores WSObserving closely, using simple equipment WSIdentifying and classifying WSGathering and recording data to help in answering questions.	different kinds of animals and plants, and how they depend on each other KIdentify and name a variety of plants and animals in their habitats, including micro- habitats WSIdentifying and classifying WSGathering and recording data to help in answering questions. WSObserving closely, using simple equipment WSAsking simple questions and recognising that they can be answered in different ways	roots, stem/trunk, leaves and flowers KInvestigate the way in which water is transported within plants KExplore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. WSAsking relevant questions and using different types of scientific enquiries to answer them WSMaking systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers WSGathering, recording, classifying and presenting data in a variety of ways to	KObserve 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) KIdentify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. WSIdentifying differences, similarities or changes related to simple scientific ideas and processes WSSetting up simple practical enquiries, comparative and fair tests WSMaking systematic and careful observations and, where appropriate, taking accurate measurements using standard	and the falling object KIdentify the effects of air resistance, water resistance and friction, that act between moving surfaces KRecognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. WSIdentifying scientific evidence that has been used to support or refute ideas or arguments. WSTaking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate WSReporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and	ideas or arguments.

Science	Foundation stage	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
				help in answering questions WSUsing straightforward scientific evidence to answer questions or to support their findings.	units, using a range of equipment, including thermometers and data loggers WS Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	degree of trust in results, in oral and written forms such as displays and other presentations WS Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary WS Using test results to make predictions to set up further comparative and fair tests WS Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	