

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

Кеу

Key skills that can be taught outside of the classroom (including the outdoor learning skills)

Key Vocabulary

Links to other Science documents

				EYFS							
Fundamental O	utdoor Learning Skills	for all children:									
 To take 	risks, engage in new exp	eriences, and learn by tr	ial and error.								
 Use sen 	• Use senses to explore the world around them.										
 To think 	• To think of ideas, different ways to solve problems and follow instructions.										
	 To work collaboratively with others, listening to other ideas and demonstrating friendly behaviour. 										
	• To be able to ask adults or peers for help.										
To be av	ware of the boundaries s	et, and of behavioural e	xpectations in the settir	ng.	1						
						National Science Week 7th-11th March 2022	In School Science Week- Whole school				
Science days						7th-11th Warch 2022	climate change				
and weeks							exhibition (on				
							playground)				
		For all child	ren not accessing R	ange 5 and Range 6	please refer to Birth	to 5 Matters.					
Area of Science		Talks about why	To look closely at	Knows about		To develop an	They talk about the	Comments and asks			
<mark>Link to Birth to</mark>		things happen and	similarities,	similarities and		understanding of	features of their own	questions about			
<mark>5 Matters</mark>		how things work.	differences,	differences in		growth, decay and	immediate	aspects of their			
(Range 5)			patterns and	relation to places,		changes over time,	environment and	familiar world such			
(Range 6)		Shows care and	change, relating to	objects, materials		in relation to food	how environments	as the place where			
(Statutory ELG)		concern for living	everyday materials.	and living things.		and how animals	might vary from one	they live or the			
		things and the				may change.	another	natural world			
Teachers can		environment.	To name the four	Observes and can							
choose whether		To talk about basic	seasons.	describe in words or		Makes observations		Know some			
to plan these		features of materials,		actions the		of animals and		similarities and			



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inside or	such as, 'that feels	To name different	effects of physical	plants and explains	Begin to understand	differences
outside the	soft'.	kinds of weather.	activity on their	why some things	the effect their	between the
classroom.			bodies.	occur, and talks	behaviour can	natural world
		Plays with a range	Can name and	about changes	have on the	around them and
		of materials to learn	identify different		environment	contrasting
		cause and	parts of the body.	Eats a healthy		environments,
		effect, for example,		range of foodstuffs	Look closely at	drawing on their
		makes a string	To feel their heart	and understands	similarities,	experiences and
		puppet using	beating faster when	need for variety in	differences, patterns	what has been read
		dowels and string to	they exercise.	food	and changes in	in class;
		suspend the puppet.			nature.	
						Shows some
				Explore the natural	Understand some	understanding that
				world around them,	important processes	good practices with
				making	and changes in the	regard to exercise,
				observations and	natural world	eating, drinking
				drawing pictures of	around them,	water, sleeping and
				animals and plants	including the	hygiene can
					seasons and	contribute to good
				To identify between	changing states of	health
				healthy and	matter.	
				unhealthy food.		To identify
					To know some	between healthy
					characteristics of	and unhealthy
					different seasons.	food.
					To discuss some	To know where
					ideas about how	they live and
					they can look after	discuss where
					their environment.	other people may
						live.



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- · · ·	Health and Safety	Changes in seasons and environment	Being an Independent Outdoor Learner
Outdoor learning	 To know how to travel safely on rough ground. To know how to carry sticks and move logs safely. To be aware of those around them and maintain a safe distance, especially when moving equipment. To be able to understand how to store and move equipment safely. To know the sensible clothing and protection they need when outside, i.e. waterproofs, coats, wellies, gloves. To understand that they need to wash their hands after touching anything outside and to not put anything close or in their mouths. 	 Personal skills: To use their ideas to independently respond to the environment around them. To talk about why things happen and how things work. To be able to use a range of tools safely to demonstrate their knowledge of outdoor learning To be able to communicate clearly in team games. To be aware of those around them and maintain a safe distance, especially when moving equipment. To be able to talk about how being outside is making them feel. Building skills: To build a safe tower out of sticks. To use material resources to create a piece of art. To move logs to create a track or space for animals. 	 To know how to stay safe outdoors independently. To independently use, tidy away and discuss different tools and equipment. To know how to look after their environment. To describe the benefits of being outside. To know how to find mini-beasts and how to safely return them to their habitat. To build a collaborative masterpiece using a range of natural materials. To understand what a den is and begin to build a den with adult support.
Key Vocabulary		id of the year: II, long, weather, season, winter, spring, autumn, summer, wind, rain, su ifferent, material, healthy, unhealthy, sleep, diet, exercise, heart, body, r	



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	This is not an extensiv EYFS.	e list of vocabulary and	this can be added to ba	sed on the children and	Teacher judgement. The	reason for this is to pr	event the narrowing of	the curriculum for				
	Year 1											
Science days and weeks						National Science Week 7th-11th March 2022	In School Science Week- Whole school climate change exhibition (on playground)					
Area of Science		Everyday materials Identify up to 6 materials and describe some physical properties. Sort a range of materials into groups and make the distinction between the object and the material it is made from. Key vocabulary: absorbent/not absorbent, bending, bendy/not bendy, gas, glass, hard/soft, liquid, metal, plastic, property, rock, rough/smooth, shiny/dull, solid,	Seasonal change Name and identify general seasonal change. Identify general characteristics of the seasons. Describe the changing seasons with a number of indicators and relate the weather typically associated with each season across a year. Key Vocabulary autumn, dark, day length, days, hours, light, months, moon, movement, shadow, spring,	Everyday materials Identify the suitability of materials and why the properties are important. To understand what recycling is and its importance. Key vocabulary: absorbent/not absorbent, bending, bendy/not bendy, gas, glass, hard/soft, liquid, metal, plastic, property, rock, rough/smooth, shiny/dull, solid, squashing, stretching, stretching,		Plants Name up to 10 common plants and /or trees and name most plant/tree plants by selecting correct labels Gather and record data. Relate parts of plants to food stuff Key vocabulary: branches, bud, bulb, deciduous tree, evergreen tree, flowers, fruit, garden/flowering plants, leaves, petals, roots, seed, stem, trunk, wild plants, twig	Seasonal change Associate the changing seasons with indicators to animal and plant behaviour. Discuss the temperature of the seasons. Explain how the daylight hours vary. Identify and understand what pollution is. Understand what energy is used for. Key Vocabulary autumn, dark, day length, days, hours, light, months, moon, movement, shadow,	Animals, including humans Identify most body parts by selecting correct labels to pictures. Identify why it is important to keep healthy. Key Vocabulary: Body - head, neck, shoulders, arms, elbows, wrist, fingers, chest, abdomen, legs, thighs, knees, shins, feet, toes. Senses - tongue- taste, nose-smell, ears hearing, eyes- sight, skin-touch.				



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squashing, stretching,	summer, sun, winter	twisting, water, waterproof/not	Local plants/flowers:	spring, summer, sun, winter
stretchy/stiff, twisting, water, waterproof/not		waterproof, wood. opaque/see-through	daffodils, poppies, dandelions, sunflowers,	Animals, including humans
waterproof, wood. opaque/see-through			snowdrops, beans, carrots, tomatoes, strawberries, mint. Identify trees: oak,	Describe the characteristics of mammals, birds,
			ash, horse chestnut, sycamore, pine, conifer, holly.	fish, reptiles and amphibians.
				Key vocabulary: Food fish (cod, trout, tuna) clownfish,
				shark; fish: goldfish, koi. Amphibians: frog,
				toad, newt. Birds: blackbird, robin, starling,
				sparrow, tit, pigeon, duck, penguin, ostrich, swan,
				chicken. Mammals: Humans, wild
				animals such as primates, (ape, gorilla, orangutan,
				chimpanzee) monkey, lion, tiger,



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					elephant, zebra, giraffe etc. Carnivores - meat eaters- tiger, wolf, orca, owl, eagle, hawk. Herbivores -plant eaters- rabbit, zebra, sheep, horse, cow: Omnivores -plant and meat eaters- Human, bear, badger, ape. Farm animals: cow, horse, sheep, goat, donkey. Pet animals: cat, dog, hamster, mouse, guinea pig: Woodland animals: badger, fox, deer, squirrel	
Emerging Use in conjunction to Assessment tracker grids	I can identify a limited number of materials with prompting. I can describe at least one physical property of a limited	I can identify general characteristics of the seasons. I can name the four seasons.	I can say why a material has been used, linking to the properties. I can identify simple objects made of one material.	I can name a limited number of plants with prompting. I can name some plant/tree parts with prompting	I can identify why there is changing seasons. I know what temperature is. I can describe all common chordate animals as having an	I can identify body parts with prompting. I know the 5 senses.



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	number of materials with prompting. I can group together similar materials.				internal skeleton of bones covered by flesh with visible sense organs, eyes, ears, nose, tongue etc.	
Expected Use in conjunction to Assessment tracker grids	I can identify up to 6 materials with prompting questions. I can describe some physical properties of some materials. I can sort a range of materials into groups with prompting questions.	I can relate the weather typically associated with each season across a year.	I can make the distinction between the object and the material it is made from. I can give reasons, using Scientific vocabulary, as to why a material is suitable. I know what recycling is and can sort materials into groups.	I can name up to 10 common plants and /or trees with little prompting I can name most plant/tree plants by selecting correct labels to pictures answering simple questions.	I can describe the changing seasons with a number of indicators. I can link changing seasons to animal behaviour. I can give a numerical equivalence to the temperature of the seasons. I can correctly describe mammals and birds as warm blooded covered with fur and feathers, and fish, reptiles and amphibians as cold blooded; fish as having scales, reptiles and amphibian as having	I can identify most body parts by selecting correct labels to pictures etc. I can use the 5 senses correctly. I can identify how people stay healthy.



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					rough or smooth skin.	
Exceeding Use in conjunction to Assessment tracker grids	I can identify over 6 materials with confidence and certainty. I can identify the physical properties of a wide range of materials with confidence and certainty, gathering and recording data to help in answering questions. I can sort a range of materials accurately and consistently into groups explaining their reasoning.	I can explain how the daylight hours vary between mid- winter and mid- summer.	I can identify combination materials with confidence and certainty. I can explain what recycling is and why it is important. I can sort materials and objects into recycling groups and give reasons for my choices.	I can name over 10 common plants/trees with confidence. I can gather and record data to help. I can name all common plants and trees written labelling of pictures and diagrams: asking simple questions. I can use my observations and ideas to relate parts of plants to food stuffs	I can associate the changing seasons with a number of indicators to animal and plant behaviour and give reasons as to why. I can give a numerical equivalence to the temperature of the seasons. e.g. using the rhyme "5, 10, 21- winter, spring and summer sun" and compare the temperatures in different environments. I can use my observations to describe most mammals, reptiles and amphibian as having four limbs (arms and) legs or flippers) and suggest examples of those that do not	I can identify all body parts accurately drawing and pictures and/or diagrams associating the correct parts with one (or more) of the five senses. I can explain why 5 senses are important. I can explain why it is important to stay healthy and what people can do to stay healthy.



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					obviously show these	
Outdoor Learning	Key skills: - To work in a team to build a shelter and animal home. - To make a miniature shelter using natural materials.	Key skills: - To create a natural picture frame and discuss the properties of the natural materials that they have used (flexible or non- flexible) - To use natural materials to create artwork that they can talk about. (mud painting) - To make a miniature shelter using natural materials.	Key skills: - To discuss the weather and how it has an impact on the environment.	Key skills: -To observe and describe how seeds and bulbs grow. -To identify and name a variety of wild and garden plantsTo describe the plant structure (including trees))-To identify deciduous and evergreen trees. -To name and identify some trees in our grounds by using a simple ID guide. -To look after the animals, plants and creatures in their environment.	Key skills: -To discuss the weather and how it has an impact on the environment.	Key skills: -To know what humans and animals need to survive (water, food, air).
Working Scientifically	Children can:	l Carrying Out Fair and Co	-		1	L



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These statements link explicitly to the ideas for depth cards.	 begin to recognise ways in which they might answer scientifier carry out simple practical tests, using simple equipment. experience different types of scientific enquiries, including provide the provided of the provided		 Drawing Conclusions, Noticing Patterns and Presenting Findings Children can: notice links between cause and effect with support. begin to notice patterns and relationships with support. begin to draw simple conclusions. identify and discuss differences between their results. use simple and scientific language. read and spell scientific vocabulary at a level consistent
		 Identifying, Classifying, Recording and Presenting Data Children can: use simple features to compare objects, materials and living decide how to sort and classify objects into simple groups w record and communicate findings in a range of ways with su sort, group, gather and record data in a variety of ways to he sorting diagrams, tally charts and simple tables. 	with their increasing word reading and spelling knowledge. things. ith some help. pport.



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	Year 2											
Science days and weeks						National Science Week 7th-11th March 2022	In School Science Week- Whole school climate change exhibition (on playground)					
Area of Science	Uses of everyday	Uses of everyday	Seasonal change	Animals, including		Plants	,	Living things and				
	materials	materials	Consolidate learning	humans		Draw and label		their habitats				
	Identify objects	Identify and explore	of general seasonal	Draw and label a		diagrams to record		Identify and classify				
	which can be made	materials that are	change.	diagram of a simple		their observations		some things that				
	from a number of	unsuitable to make		food chain.		and record simple		are living, dead and				
	different materials.	objects and explain	Compare			measurements of		have never been				
		their properties in	characteristics of	Sort pictures of		how seeds and		alive.				
	Describe and record	relation to their	the seasons.	humans at key		bulbs grow.						
	observations of how	suitability.		stages of				Identify the animals				
	some objects are		Describe the	development and		Discuss why the		and plants which				
	changed by bending,	To understand why	changing seasons	can identify some		plants in different		live in a range of				
	twisting or	recycling is	with a number of	changes in		conditions grow		contrasting habitats				
	stretching.	important and know how we can have an	indicators and relate	capabilities at the		differently		and explain the features of the				
	Key Vocabulary	impact on the	the weather	different stages.		Key Vocabulary		habitats which				
	As per Year 1 plus,	environment.	typically associated	Discuss how to stay		As per Year 1 plus,		meet the needs of				
	Characteristic	environment.	with each season	healthy, what we		germination, insect		those animals and				
	classification.	Key Vocabulary	across a year.	need to survive and		pollination,		plants.				
	manmade, natural,	As per Year 1 plus,		what happens when		nutrients,		piants.				
	properties.	characteristics	Key Vocabulary	we exercise.		pollination, seed		Key Vocabulary				
	p. oper tiest	classification,	autumn, dark, day			dispersal, wind		adaptation, alive,				
			length, days, hours,	Key Vocabulary		pollination.		carnivore,				
			light, months,					/				



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		manmade, natural, properties.	moon, movement, shadow, spring, summer, sun, winter.	Adult, baby, bacteria, balanced diet, carbohydrates, child, circulation, dairy, exercise, fats, fibre, fitness, food groups, germs, growth, healthy, heart rate, infection, life cycle, minerals, nutrition, protein, teenager, toddler, vitamins.	Identify trees: oak, ash, horse chestnut, sycamore, fruit tree, spruce, pine, conifer, holly, blackberry, or hawthorn Refer to Year 2 Outdoor learning activities document	characteristics, conditions, consumer, dead, excrete, feed, food chain, grow, habitat, heat, herbivore, life processes, light, living/non-living, micro-habitat, move, ocean, omnivore, pond, producer, rainforest, reproduce, respire, respond to stimuli, seashore, sound, touch, woodland Refer to Year 2 Outdoor learning activities document
Emerging Use in conjunction to Assessment tracker grids	I can identify that materials can be used to make a number of different things. I can describe how the shapes of some objects can be	I can give suggestions as to why a material would be unsuitable for an object. I can explain what recycling is and why it is important.	I can relate the weather typically associated with each season across a year.	I can match some parents and offspring, including human babies and adults and animals where parents and offspring look similar.	I can record my observations of how seeds and bulbs grow through drawings or photographs I can match simple labels to the correct	I can identify and classify some things that are living, dead and have never been alive and can identify one of the processes used to inform my sorting



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	changed by	I can sort materials		I can identify that	stage of a plant's	with prompting
	squashing and know	and objects into		animals need water,	growth.	questions.
	that some objects	recycling groups and		food and air for	I can observe and	I can match some
	are too hard to be	give reasons for my		survival.	record through	animals and plants
	squashed by hand.	choices.		I know that humans	drawings or	to their habitats
	. ,			need exercise to	photographs how	and give some
				keep healthy.	different conditions	reasons for my
				I can select from a	of water, light and	matching with
				range of foods some	temperature affect	prompting
				which make up a	the growth and	questions.
				balanced meal.	health of plants.	I can sort animals
				I know that I should		and plants into two
				wash my hands		contrasting
				before eating.		habitats.
Expected	I can identify three	I can give examples	I can explain how	I can match a wider	I can draw and label	I can identify and
	objects which can	of other materials	the daylight hours	range of parents and	diagrams to record	classify some things
<mark>Use in</mark>	be made from a	that are unsuitable	vary between mid-	offspring, including	their observations	that are living, dead
conjunction to	number of different	to make those	winter and mid-	examples where	and record simple	and have never
Assessment	materials.	objects and are able	summer.	parents and	measurements of	been alive and can
tracker grids	I can describe and	to say why they are		offspring look	how seeds and	identify two or
	record my	unsuitable in terms		dissimilar.	bulbs grow.	three of the
	observations of how	of their properties.		I can sort pictures of	I can give simple	processes used to
	some objects are	I can explain what		humans at key	explanations why	inform my sorting
	changed by bending,	recycling is and why		stages of	the plants in	with prompting
	twisting or	it is important.		development and	different conditions	questions.
	stretching.	I can explore how we		can identify some	grow differently.	I can match a range
	I know that the	are affecting the		changes in		of animals and
	properties of some	environment and		capabilities at the		plants to the most
	objects mean that	suggest ways to		different stages.		suitable habitats
	they cannot be bent,	improve this.		I can give a		and give reasons
				suggestion as to the		for my matching



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	twisted, or stretched by hand.			health implications of lack of food, water or air. I know that my heart pumps faster when I exercise and that I can feel this as a pulse. I can identify the main food groups and can plan my own balanced meal. I can explain why I should wash my hands.			with prompting questions. I can identify the animals and plants which live in two contrasting habitats.
Exceeding	I can give more than three examples to	l can invent a new material which has a	I can compare the weather typically	I can draw and label diagrams of food		I can take and record using	I can sort things that are living, dead
Use in	show my	number of useful	associated with	chains using	· ·	standard measures	and have never
conjunction to	understanding that	properties.	each season across	appropriate		to show my	been alive
Assessment	a range of materials	I can relate my	a year and explain	scientific vocabulary		understanding of	accurately and
tracker grids	can be used to make	knowledge of the	why they change.	for a human meal		how seeds and	consistently into
	many different	properties of objects	I can explain how	and at least two		bulbs grow.	, groups explaining
	objects, clearly	to their functions.	the daylight hours	carnivorous animals.		I can explain the	their reasoning by
	explaining the	I can describe and	vary between mid-	I can demonstrate		lifecycle of a plant I	referring to more
	relationship	explain why a	winter and mid-	awareness of the life		have studied,	than three of the
	between the	material would not	summer .	cycles of a wider		including the	processes used to
	properties of the	be suitable for	I can describe how	range of animals.		replanting of	inform my sorting.
	materials and the	specific objects and	the change of	I can describe why		harvested seeds to	I can explain the
	function of the	use scientific	season may affect	humans eat different		grow a new plant.	relationship
	objects in scientific	vocabulary to give	the environment	types and amounts		I can predict, test,	between animals
	terms.	reasons.		of food at different		and record, through	and plants living in



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	I can explain what recycling is and why it is important, using scientific vocabulary. I can explore how we are affecting the environment and suggest ways to improve this, giving reasons for my choices.	using scientific vocabulary.	stages of development. I can identify how exercise impacts the body in relation to heart and circulation of blood and oxygen. I can explain the consequences of not eating a balanced diet and can name all of the main food groups and their role. I know that germs can make humans unwell and can identify how the		drawings or photographs, and talk about my observations to show an understanding of the conditions that plants need to grow and stay healthy. I can use my understanding from this investigation to make predictions about what will happen when a different type of plant is studied through different			habitats, giving examples from more than two contrasting habitats. I can identify the animals and plants which live in a range of contrasting habitats and explain the features of the habitats which meet the needs of those animals and plants.
			spread of germs can		conditions			
			be reduced.					
Outdoor learning Focus on den building and constructing Survival skills	 Confident constructors To make constructions for different panimal bridges; stick towers; outdoo water traps. To build a waterproof shelter using t To group materials according to their Refer to Year 2 Outdoor learning activities do 	matter. • To name son features. • To name the identification • To talk about • To match tra	t soils are made from roc ne common garden birds common trees in our gro n chart t how to encourage wildl cks and other signs to an or learning activities doc	and talk about their ounds- using a tree ife into an area. imals.	•	To explain w animals need To work with and obtain s To find and i food. To understaa foraging.	what humans and d to survive. In others to research urvival essentials. Identify safe wild Ind the rules for safe core and purify water.	



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			To carry out fieldwork – classifying and surveying animals and their habitats. Refer to Year 2 Outdoor learning activities document
Working Scientifically These statements link explicitly to the ideas for depth cards.	 Asking Questions and Carrying Out Fair and Comparative Tests Children can: explore the world around them, leading them to ask simple things happen, using key scientific vocabulary; recognise ways in which they might answer scientific quest ask people questions and use simple secondary sources to carry out simple practical tests, using simple equipment; experience different types of scientific enquiries, including talk about the aim of scientific tests they are working on; with support, start to recognise a fair test. 	ions; find answers;	
	 Observing and Measuring Changes Children can: observe the natural and humanly constructed world around them; observe changes over time; use simple measurements and equipment; make careful observations, choosing and using appropriate equipment to help them observe carefully. 	 Identifying, Classifying, Recording and Presenting Data Children can: use simple features to compare objects, materials and living things; decide how to sort and classify objects into groups, giving scientific reasoning as to why; record and communicate findings in a range of ways; sort, group, gather and record data in a variety of ways to help in answering questions such as in simple sorting diagrams, pictograms, tally charts, block diagrams and simple tables. 	 Drawing Conclusions, Noticing Patterns and Presenting Findings Children can: notice links between cause and effect; notice patterns and relationships; begin to draw simple conclusions; identify and discuss differences between their results; use simple and scientific language and understanding the meaning of this vocabulary; read and spell scientific vocabulary at a level consistent with their increasing word reading and spelling knowledge at key



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		Year 3	stage 1; talk about their findings to a variety of audiences in a variety of ways.
Area of Science	 Forces and magnets Compare how 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 which poles are facing. 	 Light Recognise that they 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 a solid object Find patterns in the way that the size of shadows changes. Rocks Compare and group together different kinds of rocks (including those in the locality) on the basis of 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. 	 Animals including humans Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Identify that humans and some animals have skeletons and muscles for support, protection and movement. Plants Identify and describe the 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



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			 plants, including pollination, seed formation and seed dispersal. Know that plants make their own food.
Working Scientifically	 recognise when a fair test is necessary; help decide how to set up a fair test, making decisions about set up and carry out simple comparative and fair tests. Observing and Measuring Changes	ate type of scientific enquiry they might use to answer questions; ut what observations to make, how long to make them for and the type of Identifying, Classifying, Recording and Presenting Data	Drawing Conclusions, Noticing Patterns
	 Children can: make systematic and careful observations; observe changes over time; use a range of equipment, including thermometers and data loggers; ask their own questions about what they observe; where appropriate, take accurate measurements using standard units using a range of equipment. 	 Children can: talk about criteria for grouping, sorting and classifying; group and classify things; collect data from their own observations and measurements; present data in a variety of ways to help in answering questions; use, read and spell scientific vocabulary correctly and with confidence, using their growing word reading and spelling knowledge; record findings using scientific language, drawings, labelled diagrams, keys, bar charts and tables. 	 and Presenting Findings Children can: draw simple conclusions from their results; make predictions; suggest improvements to investigations; raise further questions which could be investigated; first talk about, and then go on to write about, what they have found out; report and present their results and conclusions to others in written and oral forms with increasing confidence. Using Scientific Evidence and Secondary Sources of Information



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		Year 6	 Children can: make links between their own science results and other scientific evidence; use straightforward scientific evidence to answer questions or support their findings; identify similarities, differences, patterns and changes relating to simple scientific ideas and processes; recognise when and how secondary sources might help them to answer questions that cannot be answered through practical investigations.
Area of Science	 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. Construct simple series circuits, to help them to answer questions about what happens when they try different components, for example, switches, bulbs, buzzers and motors. 	 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. Be introduced to the idea that characteristics are passed from parents to their offspring, i.e. different breeds of dogs, and what happens when, for example, Labradors are crossed with poodles. 	 Animals, including Humans 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.



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 Learn how to represent a simple circuit in a diagram using recognised symbols. Light 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. Work scientifically by deciding where to place rear-view mirrors on cars; designing and making a periscope and using the idea that light appears to travel in straight lines to explain how it works. Look at a range of phenomena including rainbows, colours on soap bubbles, objects looking bent in water and coloured filters (they do not need to explain why these phenomena occur). 	 Appreciate that variation in offspring over time can make animals able to survive in particular environments, for example, by exploring how giraffes' necks got longer. Find out about the work of palaeontologists such as Mary Anning and about how Charles Darwin and Alfred Wallace developed their ideas on evolution. 	 Explore questions to understand how the circulatory system enables the body to function. Learn how to keep their bodies healthy and how their bodies might be damaged – including how some drugs and other substances can be harmful to the human body. Explore the work of scientists. Living things and their habitats 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. Know that broad groupings, such as microorganisms, plants and animals can be subdivided. Should classify animals into commonly found invertebrates (such as insects, spiders, snails, worms) and vertebrates (fish, amphibians, reptiles, birds and mammals).
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			 Find out about the significance of the work of scientists such as Carl Linnaeus, a pioneer of classification.
Working Scientifically	 Asking Questions and Carrying Out Fair and Comparative Tests Children can: with growing independence, raise their own relevant questions about the world aro with increasing independence, make their own decisions about the most appropriat explore and talk about their ideas, raising different kinds of scientific questions; ask their own questions about scientific phenomena; select and plan the most appropriate type of scientific enquiry to use to answer scie make their own decisions about what observations to make, what measurements to plan, set up and carry out comparative and fair tests to answer questions, including use their test results to identify when further tests and observations may be needed 	e type of scientific enquiry they might use to ans ntific questions; o use and how long to make them for, and wheth recognising and controlling variables where nece	er to repeat them;
	 Observing and Measuring Changes Children can: choose the most appropriate equipment to make measurements and explain how to use it accurately; take measurements using a range of scientific equipment with increasing accuracy and precision; take repeat readings when appropriate; understand why we take an average in repeat readings. Identifying, Classifying, Recording and Presenting Data Children can: independently group, classify and describe living things and materials; use and develop keys and other information records to identify, classify and describe living things and materials; decide how to record data from a choice of familiar approaches; record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar graphs and line graphs. 	 Drawing Conclusions, Noticing Patterns and Presenting Findings Children can: notice patterns; draw conclusions based in their data and observations; use their scientific knowledge and understanding to explain their findings; read, spell and pronounce scientific vocabulary correctly; identify patterns that might be found in the natural environment; look for different causal relationships in their data; 	 Using Scientific Evidence and Secondary Sources of Information Children can: use primary and secondary sources evidence to justify ideas; identify evidence that refutes or supports their ideas; recognise where secondary sources will be most useful to research ideas and begin to separate opinion from fact; use relevant scientific language and illustrations to discuss, communicate and justify their scientific ideas; talk about how



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	•	discuss the degree of trust they	scientific ideas have developed
		can have in a set of results;	over time.
	•	independently report and present	
		their conclusions to others in oral	
		and written forms.	