

Aspect	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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	name some of the different body parts.	main parts of the human body and say which body part is associated with	development (baby, toddler, child, teenager, adult and	humans need the skeleton and muscles for support,	reproduction.	Name and describe the purpose of the circulatory system and the functions of the heart, blood vessels and blood.
Human body						



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	Follow instructions	Describe ways to	Describe what	Explain why light	Explain the	Explain the	Explain the dangers
	when in different	stay safe in some	humans need to	from the Sun can be	precautions needed	precautions needed	of using lasers and
	environments and	familiar situations.	survive.	dangerous.	5 1	5 ,	ways to use them
	when handling				with electrical	<u> </u>	safely.
	simple equipment,				circuits.	burning, cooling and	
	such as scissors.					mixing materials.	
Safe							
Staying							
Sta							



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	Wash and dry hands	Explain why hand	Describe the	Explain the	Describe what	Explain why	Explain the impact
	regularly and say	washing and	importance of a	importance and	damages teeth and	personal hygiene is	of positive and
	why this is	cleanliness are	healthy lifestyle,	characteristics of a	how to look after	important during	negative lifestyle
	important	important.	including exercise, a balanced diet, good quality sleep and personal hygiene.		them.	puberty.	choices on the body.
Healthy lifective							



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a d le	Notice and talk about the lifferences in day ength between he seasons.	Observe and describe how day length changes across the year. covered	Describe how some objects and materials can be changed and how these changes can be desirable or undesirable.	Describe simply how fossils are formed, using words, pictures or a model.	Observe and explain that some materials change state when they are heated or cooled and measure or research the temperature in degrees Celsius (°C) at which materials change state	Identify, demonstrate and compare reversible and irreversible changes.	Describe some significant changes that have happened on Earth and the evidence, such as fossils, that support this.
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Earth	Describe simply how weather changes as the seasons change.	Observe and describe different types of weather.	Describe features of Earth using words and pictures.	Investigate soils from the local environment, making comparisons and identifying features.	Describe the water cycle using words or diagrams and explain the part played by evaporation and condensation.	Describe or model the movement of the Moon relative to Earth.	Identify that light travels in straight lines.



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ena 	Name and describe natural phenomena, such as the size of shadows, the colours of a rainbow, the speed of clouds moving across the sky and the strength of a wave.			Describe the differences between dark and light and how we need light to be able to see. covered	Explain how sounds are made and heard using diagrams, models, written methods or verbally.	Describe the Sun, Earth and Moon as approximately spherical bodies and use this knowledge to understand the phases of the Moon and eclipses.	Describe, using scientific language, phenomena associated with refraction of light.
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Forces	Describe, predict and sort things that float and sink and talk about the forces that they can feel.	Investigate weather using toys, models or simple equipment.	Sort and group objects that float and sink.	Explain that an object will not move unless a push or pull force is applied, describing forces in action and whether the force requires direct contact or whether the force can act at a distance (magnetic force).	Predict and describe whether a circuit will work based on whether or not the circuit is a complete loop and has a battery or cell.	Explain that objects fall to Earth due to the force of gravity.	Explain how the brightness of a lamp or volume of a buzzer is affected by the number and voltage of cells used in a circuit.
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Modelling	Explore and describe electrical and non- electrical light sources.	Describe, following exploration, what simple electrical circuits can do.	Make models with moving parts.	Make working models with simple mechanisms or electrical circuits.	Construct operational simple series circuits using a range of components and switches for control.	Describe and demonstrate how simple levers, gears and pulleys assist the movement of objects.	Create circuits using a range of components and record diagrammatically using the recognised symbols for electrical components.
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	Offer explanations	Talk about what	Begin to notice	Use suitable	. Use scientific	Use relevant	Report on and
	for why things	they have done	patterns and	vocabulary to talk	vocabulary to	scientific	validate their
	happen, making	and say, with	relationships in	or write about	report and answer	vocabulary to	findings, answer
	use of vocabulary,	help, what they	their data and	what they have	questions about	report on their	questions and
	such as, because,	think they have	explain what they	done, what the	their findings	findings, answer	justify their
	then and next.	found out.	have done and	purpose was and,	based on	questions and	methods, opinions
			found out using	with help, draw a	evidence	justify their	and conclusions,
			simple scientific	simple conclusion	collected, draw	conclusions based	and use their
			language.	based on evidence	simple	on evidence	results to suggest
				collected,	conclusions and	collected, identify	improvements to
				beginning to	identify next	improvements,	their
				identify next steps	steps,	further questions	methodology,
<u>م م</u>				or improvements.	improvements	and predictions.	separate facts
					and further		from opinions,
Report &					questions.		pose further
a c							questions and
							make
							predictions for
							what they might
							observe.



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Gather & record	Record data in simple tables and pictograms.	With support, gather and record simple data in a range of ways (data tables, diagrams, Venn diagrams).	Use a range of methods (tables, charts, diagrams and Venn diagrams) to gather and record simple data with some accuracy.	Gather and record findings in a variety of ways (diagrams, tables, charts and graphs) with increasing accuracy.	Gather, record, classify and present observations and measurements in a variety of ways (pictorial representations, timelines, diagrams, keys, tables, charts and graphs).	Gather and record data and results of increasing complexity, selecting from a range of methods (scientific diagrams, labels, classification keys, tables, graphs and models).	Choose an appropriate approach to recording accurate results, including scientific diagrams, labels, timelines, classification keys, tables, models and graphs (bar, line and scatter), linking to mathematical knowledge.



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Questioning	Ask a relevant scientific question to find out more, explain how things work and why they might happen.	Ask simple scientific questions.	Ask and answer scientific questions about the world around them.	Ask questions about the world around them and explain that they can be answered in different ways.	Ask relevant scientific questions, independently, about the world around them and begin to identify how they can answer them.	Ask a wide range of relevant scientific questions that broaden their understanding of the world around them and identify how they can answer them.	Ask and answer deeper and broader scientific questions about the local and wider world that build on and extend their own and others' experiences and knowledge.
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Measurement	With support, use simple equipment, such as timers, rulers and containers, to measure length, height, capacity and time.	With support, use simple equipment to measure and make observations.	Use simple equipment to measure and make observations.	Take measurements in standard units, using a range of simple equipment.	Take accurate measurements in standard units, using a range of equipment.	Take increasingly accurate measurements in standard units, using a range of chosen equipment.	Take accurate, precise and repeated measurements in standard units, using a range of chosen equipment.
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With support, observe, record and talk about materials and living things. Observe objects, materials, living things and changes over time, sorting and grouping them based on their features. Observe objects, materials, living things and changes over time, sorting and grouping them based on their features.	carefulwhichobservations,observations,identifyingmake arsimilarities,long andddifferences andsystemachanges andcarefulmaking simpleobservations,connections.comparing	nd for how make, when and for how long, and for how long, and make systematic and careful observations, using them to make s and comparisons, comparisons,	Independently decide which observations to make, when and for how long and make systematic and careful observations, using them to make comparisons, identify changes, classify and make links between cause and effect.
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Identification and	Name and sort everyday items into groups of the same material.	Identify and name what an object is made from, including wood, plastic, glass, metal, water and rock.	Observe what happens when a range of everyday materials, including foods, are heated and cooled, sorting and grouping them based on their observations.	Group and sort materials as being reflective or non- reflective.	Group and sort materials into solids, liquids or gases.	Compare and group everyday materials by their properties, including hardness, solubility, transparency, conductivity (electrical and thermal) and magnetism. Explain, following observation, that some substances (solutes) will dissolve in liquid (solvents) to form a solution and the solute can be recovered by evaporating off the solvent.	Investigate and identify good thermal insulators, describing their common features.
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Properties and	Identify that materials have different properties, explore, and sort magnetic and non- magnetic materials through play and exploration.	Investigate and describe the simple physical properties of some everyday materials, such as hard or soft; stretchy or stiff; rough or smooth; opaque or transparent; bendy or rigid; waterproof or not waterproof and magnetic or non- magnetic	Compare the suitability of a range of everyday materials for particular uses, including wood, metal, plastic, glass, brick, rock, paper and cardboard .	Compare and group materials based on their magnetic properties.	Describe materials as electrical conductors or insulators.	Describe, using evidence from comparative or fair tests, why a material has been chosen for a specific use, including metals, wood and glass. Separate mixtures by filtering, sieving and evaporating.	Describe, using diagrams, how light behaves when reflected off a mirror (plane, convex or concave) and when passing through a lens (concave or convex).
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	and group plants and trees according to their observable features. Match animals to their young.	group and sort a variety of common wild and garden plants, including deciduous and evergreen trees, based on observable features. Identify, compare, group and sort a variety of common animals, including fish, amphibians, reptiles, birds, invertebrates and mammals, based on observable features.	life cycles of some familiar animals (egg, caterpillar, pupa, butterfly; egg, chick, chicken; spawn, tadpole, froglet, frog). Identify and name a variety of plants and animals in a range of habitats and microhabitats.	group animals that have no skeleton, an internal skeleton (endoskeleton) and an external skeleton (exoskeleton).	group living things from a range of environments, in a variety of ways, based on observable features and behaviour.	plants by how they reproduce.	construct classification systems to identify animals and plants from a range of habitats. Classify living things, including microorganisms, animals and plants, into groups according to common observable characteristics and based on similarities and differences.
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	Name and describe basic features of plants and trees. Identify common features for different groups of animals, including wild and domestic animals.	Label and describe the basic structure of a variety of common plants. Label and describe the basic structures of a variety of common animals, including fish, amphibians, reptiles, birds and mammals.	Describe how plants need water, light and a suitable temperature to grow and stay healthy.	Investigate how water is transported within plants. Name and describe the functions of the different parts of flowering plants (roots, stem, leaves and flowers).	Identify the four different types of teeth in humans and other animals, and describe their functions.	Label and draw the parts of a flower involved in sexual reproduction in plants (stamen, filament, anther, pollen, carpel, stigma, style, ovary, ovule and sepal).	Identify that living things produce offspring of the same kind, although the offspring are not identical to either parent. Describe how animals and plants can be bred to produce offspring with specific and desired characteristics (selective breeding). covered
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	Match animals to the foods that they eat.	Group and sort a variety of common animals based on the foods they eat.	Interpret and construct simple food chains to describe how living things depend on each other as a source of food.	Compare and contrast the diets of different animals.	Construct and interpret a variety of food chains and webs to show interdependence and how energy is passed on over time.	Describe, using their knowledge of food chains and webs, what could happen if a habitat had a living thing removed or introduced.	Explain that the circulatory system in animals transports oxygen, water and nutrients around the body.
Nutritio							



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Survival	Describe some ways that plants or animals should be cared for in order for them to survive.	Describe how to care for plants and animals, including pets.	Explain how animals, including humans, need water, food, air and shelter to survive.	Describe the requirements of plants for life and growth (air, light, water, nutrients and room to grow) and how they vary from plant to plant.	Explain how adaptations help living things to survive in their habitat.	Describe the life process of reproduction in some plants and animals.	Identify how animals and plants are adapted to suit their environment, such as giraffes having long necks for feeding, and that adaptations may lead to evolution.
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Habitats	Observe and describe living things and their habitats within the local environment.	Observe the local environment throughout the year and ask and answer questions about living things and seasonal change.	Describe a range of local habitats and habitats beyond their locality (beaches, rainforests, deserts, oceans and mountains) and what all habitats provide for the things that live there.	Describe how environments can change due to natural influences and how living things need to be able to adapt to these changes.	Describe how environments can change due to human and natural influences and the impact this can have on living things.	Research and describe different farming practices in the UK and how these can have positive and negative effects on natural habitats.	Research unfamiliar animals and plants from a range of habitats, deciding upon and explaining where they belong in the classification system.
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Physical	Compare and group objects and materials according to simple given criteria.	Compare and group materials in a variety of ways, such as based on their physical properties; being natural or man- made and being recyclable or non- recyclable.	Compare and group things that are living, dead or have never been alive.	Investigate and compare a range of magnets (bar, horseshoe and floating) and explain that magnets have two poles (north and south) and that opposite poles attract each other, while like poles repel each other.	Compare common household equipment and appliances that are and are not powered by electricity.	Compare the life cycles of animals, including a mammal, an amphibian, an insect and a bird.	Compare the living things in two contrasting areas of a habitat (top vs bottom of a hill, full sun vs shade, exposed location vs sheltered location or well-trodden path vs unused area).
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Phenomen	Make a shadow bigger or smaller using toys, play equipment and a light source.	Compare shadows made by different objects and materials. covered	Compare the volume and pitch of sounds made by instruments, their voices or other objects.	Compare how objects move over surfaces made from different materials.	Compare how the volume of a sound changes at different distances from the source. covered x 2	Compare and describe, using a range of toys, models and natural objects, the effects of water resistance, air resistance and friction.	Compare and give reasons for variations in how components in electrical circuits function (brightness of lamps; volume of buzzers and function of on or off switches).
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Living things	Explore the natural world around them and give simple descriptions, following observation, of changes.	Describe, following observation, how plants and animals change over time.	describe how	Draw and label the life cycle of a flowering plant.	Explain how unfamiliar habitats, such as a mountain or ocean, can change over time and what influences these changes.	Describe the changes as humans develop from birth to old age.	Explain that living things have changed over time, using specific examples and evidence.
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