





Aspect	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals	Identify and name a	Identify the habitats of	Identify some of the most	Identify producers, predators	Identify and present in an	Identify the major parts of the
including	range of common	animals and understand	common bones in animals	and prey in a given food chain	appropriate way, the key	human circulatory system and their
humans:	animals from the local	that most living things live	such as skull, ribs and spine,	and define the terms.	stages in human growth and	functions (heart, blood vessels and
Identifying and	and wider environment.	in habitats to which they	describing their primary		development from birth to	blood).
naming		are suited.	functions and explain the		old age.	
			function of the skeleton.			
Animals	Classify and sort familiar	Sort and classify things	Use classification keys to	Develop own classification keys	Describe the difference in the	Describe how living things are
including	animals according to	according to whether they	group, identify and name a	and assign living things to	lifecycles in the different	classified into broad groups
humans:	whether they are	are dead, alive or have	variety of living things in their	groups, using the keys.	categories of animals:	according to common observable
Classification	invertebrates, fish,	never been alive.	local and wider environment.		mammals, amphibians,	characteristics and based on
	amphibians, reptiles,				insects and birds.	similarities and differences.
	birds or mammals.					Give reasons for classifying plants
Aurineala	Neme enimele living in e	Define the terms 'habitat'		Construct a variativ of food		and animals in this way.
Animals	Name animals living in a		Know that animals, including	Construct a variety of food	Complete own research/	Describe how animals must adapt to
including humans:	range of familiar environments, such as	and 'micro-habitat', giving examples of animals that	humans, cannot make their own food chains and	chains and explain what would happen if one of the parts of	watch documentaries, noting detail on animals and plants	their habitat to survive, using a range of animals and their adaptations as
Habitats.	their homes, woodland	live in each place.	recognise that all food begins	the chain became 'unavailable'.	in their habitats, including the	examples.
adaptation and	or school grounds.	ive in each place.	with a plant.	Recognise that environments	work of naturalists such as	examples.
interdependence	or school grounds.		with a plant.	can change and that this can	Attenborough or Goodall.	
interdependence				sometimes pose dangers to	Attenbolough of Goodall.	
				living things.		
Animals	Explain how to take care	Identify the basic needs of	Describe how each of the	Identify different foods that	Describe the process of	Recognise and describe the damaging
including	of an animal from the	animals and humans for	main food groups specifically	can affect the health of teeth	sexual reproduction in a	impact that some drugs and other
humans:	local habitat.	survival, including good	benefit the human body for	and know the importance of	familiar animal and why it is	substances can have on the human
Growth, health		nutrition and regular	growth and health.	good oral hygiene.	important for species'	body.
and survival		exercise.			survival.	
Animals	Identify whether an	Construct a simple food	Identify the different food	Identify the different types of	Make informed choices to	Explain how nutrients and water are
including	animal is a carnivore,	chain that includes humans	groups and design a healthy	teeth and their functions,	maintain their health and	transported within humans and
humans:	herbivore or omnivore	at the top as the consumer.	meal based on these food	including how these vary from	well-being, explaining the	animals.
Diet and teeth	and how we might know		groups.	animal to animal and animal to	reasons for these choices.	
	this from their physical			human.		
	appearance.					







Animals including humans: The body	Draw and label basic parts of the human body, including those related to the senses.	Explain simply how humans and some familiar animals change as they grow.	Describe how the skeleton and muscles work together to support, protect and assist movement.	Identify the body parts associated with the digestive system, such as mouth, tongue, teeth, oesophagus, stomach and intestine and describe their special functions.	Describe the key physical changes in the male and female human body during puberty. Describe the changes in the human body as it develops to old age.	Describe how lifestyle is important for the health of the human circulatory system, including how diet, exercise, drugs and lifestyle affect our bodies.
Animals including humans: Life Cycles	Describe in simple terms the life cycle of familiar animals such as a frog, butterfly or human.	Notice that animals have offspring which grow into adults. Recognise the need for animals and humans to grow and reproduce.			Draw the lifecycle of an insect, an amphibian, a bird and a mammal, highlighting the key differences and similarities.	Describe how the lifecycles of bacteria and viruses differ.
Animals including humans: Comparing	Compare animals that are kept as pets, knowing which group they belong to.	Compare the living things in familiar habitats with the living things in a less familiar habitat.	Compare the diets of a herbivore and carnivore with (typically) omnivorous humans.	Compare and contrast the digestive system of a herbivore, with a carnivore, using their knowledge of the parts of the human digestive system, including end products.	Compare key facts about mammalian gestation and birth and suggest reasons for variation within a species (e.g. typical gestation in humans being 37 – 42 weeks).	
Substances, matter and materials: Identifying and naming	Name a range of everyday materials, including wood, plastic, metal, rock and glass.	Identify the uses of everyday materials in a familiar location (e.g. school or home), recording their findings.	Identify and name a range of rocks and soils, describing simply how fossils are formed.	Identify how water changes state, using the correct terminology and relate these key processes to the water cycle.	Identify a wide range of reversible and irreversible changes that are in use in everyday life.	
Substances, matter and materials: Classification	Group and sort materials according to their simple physical properties.	Sort and grade a range of materials for a specific property (e.g. smoothness).	Classify and group rocks according to their appearance or physical properties, using a hand lens or digital microscope and identify whether they are granular, crystalline or fossilised.	Classify everyday materials as a solid, liquid or gas at room temperature.	Classify and group mixtures for how they can be separated, including sieving, filtering and evaporating.	







Substances, matter and materials: Uses	Identify the material an object is made from, suggesting why it is made from that material.	Identify and describe the range of materials that can be used to make a single given object (e.g. cup, chair, table or shelter).	Suggest reasons why certain rocks or stones are used for a specific purpose.	Describe a material whose use changes as its state changes.	Provide evidence and reasons why a material has been chosen for a specific use. Scientifically and systematically compare the functionality of a range of materials to perform a specific function.	
Substances, matter and materials: Physical processes	Identify some materials that help physical processes (e.g. woollen fabric keeps us warm).	Describe how the shape of some materials can be changed by twisting, kneading, squashing or stretching.	Explain the terms 'weathering' and 'erosion' and describe the effect they have on different rocks and soils.	Explain the effect of heating and cooling on a range of substances, including water.	Describe what happens when a solute dissolves in a solvent to form a solution and how this process can be reversed.	
Substances, matter and materials: Physical properties	Describe properties of materials using everyday language or simple scientific vocabulary (e.g. hard/soft, bendy/not bendy).	Relate a material's physical properties to its uses (e.g. describe or demonstrate how a material can be unsuitable for a given task due to its ability to be changed by squashing and bending).	Investigate the physical properties of one or a number of rock types and relate their properties to their appearance.	Describe the properties of solids, liquids and gases, giving examples of each (e.g. solids retain their shape).	Describe some familiar and unfamiliar material's physical properties, including transparency, conductivity, solubility and magnetism.	
Substances, matter and materials: Comparisons	Compare two or more different materials for their performance at a particular task (e.g. mopping up a spill).	Compare significant individuals who have developed useful materials (e.g. Charles Macintosh or John Dunlop) and decide which individual material is most useful to them.	Compare a range of rock or soil samples from the locality, using simple tables and diagrams to present their findings.	Measure or research the temperature, in degrees celsius, at which materials change state and compare to the temperature at which water changes state.	Compare reversible with irreversible change, using flow diagrams/equations to show which materials are added, what is made and indicating if the reaction can be reversed.	
Plants: Identifying and naming	Identify and name common flowers and trees found growing in the locality.	Identify what eats plants as a food source and recognise simple food chains.	Identify and describe the functions of common plant parts. Explain how their structure is suited to their function (e.g. roots are long	Identify and name a variety of plants in the local area and compare to a contrasting environment, comparing their physical appearance.	Identify the key structures involved in plant sexual reproduction.	Identify plants which have survived on Earth for millions of years and how we know this.







			and branched to provide good anchorage).			
Plants: Classification	Sort trees into groups to show those that are evergreen and those that are deciduous.	Sort seeds and bulbs into groups according their physical features.	Sort and classify a range of seeds into broad dispersal methods, such as wind (dandelion), water (coconut) or animal (yew).	Use classification keys to classify plants into groups, such as flowering or non-flowering plants, or compound, palmate or single blade leaves.	Classify plant types according to how they reproduce.	Devise classification keys to identify plants in the immediate environment. Give reasons for classification and understand the significance of scientists' work.
Plants: Plant parts and their functions	Identify the basic structural parts of common flowering plants and trees, including root, stem, stalk, leaves, flowers, bulb, fruit, seeds and trunk.	Describe the different plant parts.	Draw a simple diagram to show how water is transported through a plant.	Identify uncommon, specialised plant parts such as tendrils and suckers and explain their function.	Explain why plants have flowers and why it is important for them to attract insects and other pollinators.	Research and describe similarities and differences between petals, leaves, stamen and stigma on a variety of plants found in the locality and elsewhere.
Plants: Habitats and Adaptation	Identify their locality as a habitat for living things.	Explain how plants are suited to their habitats and give examples of plants growing in different habitats.	Compare and describe how requirements for growth vary from plant to plant and how this relates to a plant's environment, such as with climbing plants and alpine plants.	Describe how a plant's habitat may naturally change throughout the year and how plants adapt to these changes.	Describe features of flowers, such as scent, colour, shape and size, and how they have evolved to ensure successful pollination.	Describe how plants have adapted and ultimately evolved to suit their environments using specific examples.
Plants: Growth and Survival	Care for a growing seedling, observing and describing its growth.	Describe how plants grow, identifying what a plant needs for healthy growth and survival (water, light and a suitable temperature).	Recognise that plants make their own food necessary for growth and survival, storing it in their leaves (they do not need to understand how this happens).	Explain how humans can impact on plants' environment in both positive and negative ways, giving examples from their locality.	Describe the different ways in which new plants can be grown from their parent plant, including seeds, bulbs, tubers, cuttings and grafting.	Suggest why some plants have survived over time and some have not.
Plants: Life Cycles	Identify the seeds, as a part of a plant, that makes a whole new plant.	Recognise that plants produce seeds in order to reproduce and generate new plants. Describe the requirements of plants for germination.	Order pictures showing the stages in the life cycle of a plant.	Draw a labelled diagram to show the lifecycle of a familiar plant, including germination, flower production, pollination, seed formation and seed dispersal.	Describe the process of plant reproduction using the correct scientific language. Observe/comment on/record plant life cycles.	Define the plant terms 'annual', 'biennial', and 'perennial' describing differences in lifecycles and identifying plants of each type.







Plants:	Describe how plants	Describe how bulbs help	Allocate different stages of a	Describe in detail the changes	Grow a range of	Identify relationships between the
Seasonal	change over time,	plants to grow in winter.	plant's life cycle to different	that occur in a familiar tree or	plants/vegetables from	seasons and a typical plant life cycle
Changes	including seasonal		seasons, suggesting reasons	plant over the seasons.	seeds, cutting, tubers and	using observations from the school
	changes (leaves fall off,		why the stages occur when		bulbs, across the different	environment.
	blossom, buds opening).		they do.		seasons and note the	
					conditions needed for	
					growth.	
Plants:	Name and compare	Make comparisons	Compare and explain the	Compare plants growing in a	Make comparisons between	Compare native plants with non-
Comparisons	familiar plants according	between seeds or bulbs	effect of different factors on	local habitat to those in a	asexual and sexual	native plants and determine whether
	to their observable	grown in different	plant growth, including light	contrasting one, such as a	reproduction in plants,	non-native plants can be classified in
	features.	conditions (e.g. with and	and nutrition.	cactus in the desert, and notice	suggesting reasons why	the same way as native plants.
		without light or water).		how they have adapted.	plants may reproduce in	
					different ways.	
Light and Sound:			Identify that light is reflected	Listen to and be able to identify	Identify by investigation if	Identify parts of the eye and draw a
Identifying and			from surfaces, using	a variety of familiar sounds and	and how light and sound	diagram showing how light enters
naming			equipment such as mirrors to	what is vibrating in each case.	travel through space, using	our eyes in order to see, using the
			demonstrate.		specific examples to validate	correct scientific vocabulary.
					their thinking.	
Light and Sound:			Recognise that dark is the	Recognise that vibrations from	Investigate shadows in	Describe how white light can be split
Phenomena			absence of light and describe	sound travel through a medium to the outer ear and know how	relation to times of day and	using prisms and droplets of water
			how light behaves.	sound is transferred to the	explain why the sun appears	and what colours white light is made
				inner ear.	to move across the sky.	from.
Light and Sound:			Explain that when a light	Explain the patterns between	Describe the Earth's rotation	Explain how light behaves and travels
Physical			source is blocked a shadow is	the pitch of a sound and the	to explain day and night.	in straight lines. Demonstrate, using
processes			formed.	features of the object that	to explain day and hight.	a model or diagram, how this
processes			ionneu.	produced it.		explains why we can see objects and
				Explain the patterns between		how shadows are formed.
				the volume of a sound and the		
				strength of the vibrations that		
				produced it.		
Light and Sound:			Classify a range of objects as	Investigate and classify		Classify a range of objects or surfaces
Classifying			either a light source or light	materials for their ability to		for their reflective qualities using
			reflector.	insulate against the sound.		scientific testing.







Light and Sound:		Compare and find patterns in	Measure and compare the	Compare day lengths during	Compare how a beam of light
Comparing		the way that the size of	volume of a sound at different	different seasons and provide	changes direction (refraction) when
		shadows change when the	distances from its source, using	an explanation for why they	passing through different mediums,
		light source moves or the	appropriate equipment.	differ.	such as water and air.
		distance between the light			
		source and the object			
		changes.			
Light and Sound:	Share some ideas about	Recognise that light from the	Recognise that certain sounds	Recognise that it isn't safe to	Recognise the dangers of using lasers
Safety	how to stay safe in the	sun is damaging to vision and	can be damaging to our hearing	look directly at the sun, even	and how they can be used safely.
	sun.	the skin, and how we can	and identify ways in which the	when wearing dark glasses.	
		protect ourselves.	ear can be protected.		
Forces:		Name a range of familiar	Identify how the magnetic	Identify and define the	
Identifying and		daily activities which rely	north and south pole is	opposing forces that act upon	
naming		upon or are caused by forces	different to the geographical	objects: air resistance, water	
		and magnets.	north and south pole.	resistance and friction.	
Forces:		Describe forces in action	Demonstrate using models or	Describe the force of gravity,	
Physical		(pulling and pushing) and	actions, the key forces in action	what causes it and how the	
processes		whether the force requires	during a given activity.	force of gravity changes (e.g.	
		direct contact between		if we were standing on a	
		objects or whether the force		different planet). Use study	
		can act at a distance		skills to research the work of	
		(magnetic force).		scientists such as Galileo or	
				Newton.	
Forces:		Explain the terms 'magnetic	Develop research skills, using	Demonstrate, using a model,	
Phenomena		attraction' and 'repulsion'	secondary sources (e.g. finding	how simple levers, gears and	
		and 'magnetic poles', using a	out why aurora form at the	pulleys assist the movement	
		model for assistance.	north and south magnetic	of objects by using less force.	
		Notice that magnets attract	poles).		
		and repel some materials but			
		not others.			
Forces:		Make predictions and test	Test whether any materials	Make predictions, supported	
Testing		whether two magnets will	block magnetic attraction.	by scientific reasoning to test	
		attract or repel one another,		the effects of friction on	







			depending on which way		movement and distance	
			their poles are facing.		travelled.	
Forces:			Compare how an object	Compare the speed in which	Compare the speed with	
Comparing			moves over surfaces made	objects fall to the ground	which objects of different	
			from different materials,	through the same distance of	shapes and surface area fall	
			making predictions and	air or water, using their	through air or water and	
			measuring the distance	knowledge of forces to explain	explain the reason for any	
			travelled.	the outcomes.	differences in terms of the	
					forces acting on the objects.	
Forces:			Sort and group materials into		Classify and group forces	
Classification			those that are magnetic and		based on their actions or	
			those that are not magnetic		whether they act directly, or	
			and identify patterns within		at a distance.	
			these groups.			
Seasonal	Name a range of	Identify less familiar				
changes:	different types of	weather conditions that are				
Identifying and	weather from pictures or	more common in other				
naming	sounds.	parts of the world.				
Seasonal	Describe some positive	Explain how and why the				
changes:	and negative effects of	weather influences our				
Effects of	the weather for	choice of clothing and				
weather	ourselves and our	affects what we can do.				
	environment.					
Seasonal	Observe and record the	Identify patterns and also				
changes:	daily weather on a chart	similarities and differences				
Recording the	or in a table.	within recorded weather				
weather		over a given period of time.				
Seasonal	Broadly assign different	Explain how animals or				
changes:	weather types to the	plants are affected by the				
The seasons	seasons.	seasons, using a specific				
		animal or plant as an				
		example.				
Seasonal	Describe how day length	Make comparisons to other				
changes:	changes over a year,	parts of the world where				







Day length	from experience and know how it affects their lives.	day length changes to a greater or lesser degree, such as Arctic or equatorial regions.			
Electricity:	Identify and talk about			Identify and name a range of	Identify and name components of a
Identifying and	products that use			familiar devices and equipment	circuit and define terms, such as
naming	electricity.			that require electricity for	'voltage' and 'current', in relation to
				power.	series circuits.
Electricity:		Create working circuits in		Construct operational simple	Work scientifically to construct a
Series circuits		the context of D and T (e.g.		series circuits, using a range of	series circuit for a specific device or
		to light a bulb or work a		components and switches for	outcome and explain how it works.
		buzzer).		control, and use these to make	
				simple devices.	
Electricity:				Predict if a circuit will work	Draw a series circuit, using the
Circuit symbols				based on whether it is a	conventional symbols.
				complete loop and draw simple	
				series circuits, using their own	
				or conventional circuit symbols.	
Electricity:				Recognise that a cell (battery) is	Describe the relationship between
Current and				a power source, generating and	the number of cells, or the voltage of
voltage				pushing current (electricity)	a cell, and the effect this has on a
				through a circuit and by adding	bulb or buzzer.
				cells the power source	
				increases.	
Electricity:				Sort and classify materials into	Predict materials that could be good
Conductors and				those that are conductors and	conductors of electricity and conduct
insulators				those that are insulators,	a fair test to show this.
				identifying similarities within	
				the groups.	
Electricity:	Recognise that electricity	Identify dangerous	Create rules that show an	Recognise the dangers of	Demonstrate how to work safely with
Safety	can be dangerous.	scenarios from pictures or	understanding of electrical	working with electricity and	electrical circuits.
		video clips.	safety requirements at home.	explain how to work safely.	







Earth and Space:			Name the eight planets of the	
Identifying and			solar system and describe	
naming			their position and movement	
			in relation to the sun and	
			neighbouring planets.	
Earth and Space:			Describe what a moon is,	
Moons			how they orbit a planet and	
			which planets in our solar	
			system have them.	
Earth and Space:			Describe the key force	
Spherical bodies			responsible for planets being	
			spherical.	
Earth and Space:			Explain day and night	Compare times in other parts of the
Day and night			referring the Earth's rotation,	world and relate this to the use of
			correct terminology and a	time zones.
			model.	
Earth and Space:			Explain how the Earth's	Explain how the day length changes
Day length and			'position' affects day length.	to a greater or lesser degree in other
the seasons				parts of the world (e.g. Arctic or
				equatorial regions).
Evolution and		Identify a range of fossilised		Identify features which are inherited
inheritance:		animals and plants from		from parents, such as eye colour and
Identifying and		pictures.		those that are not, such as tattoos
naming				and dyed hair colour.
Evolution and				Match offspring to their parents,
inheritance:				linked to observable features and
Inheritance				characteristics.
Evolution and				Describe how variation in living
inheritance:				things leads to the evolution of a
Evolution				species, using specific examples.
				Research the work of Darwin or
				Wallace to explain how the theory of
				evolution developed.







Evolution and				Identify how specific plants or
inheritance:				animals have adapted to their
Adaptation				environment.
Evolution and		Define what a fossil is and		Explain how fossils are formed and
inheritance:		how they are formed.		how fossil discoveries have helped
Fossils				develop the theory of evolution.
Evolution and		Suggest what the fossil of the		Suggest ways in which future
inheritance:		future may be.		changes in the world's climate may
The future				impact on ourselves and other living
				species and suggest ideas for how we
				may adapt to these changes.