













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















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 the role of the skeleton in the body	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.	Notice that animals have offspring which grow into adults. Recognise the need for animals and humans to grow and reproduce.			Observe and compare the lifecycle of an insect, an amphibian, a bird and a mammal.	
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)	Identify and name a range of rocks and soils, describing simply how fossils are formed. Recognise that soils are made from rock and organic matter.	Identify how water changes state, using the correct terminology and relate these key processes to the water cycle. Identify the role of evaporation and condensation in the water cycle	Identify a wide range of reversible and irreversible changes that are in use in everyday life, including changes associated with burning and the action of acid on bicarbonate of soda.	
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	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	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.		Provide evidence from comparative and fair tests and reasons why a material has been chosen for a specific use.	
Substances, matter and materials: Physical processes	Identify some materials that help physical processes and materials have been chosen for a particular purpose (e.g.	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.	















	woollen fabric keeps us					
	warm)					
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).		Describe the properties of solids, liquids and gases, giving examples of each (e.g. solids retain their shape).	Describe some materials' physical properties, including hardness, transparency, conductivity, solubility and magnetism.	
Substances,	Compare two or more			Measure or research the		
matter and	different materials for			temperature, in degrees		
materials:	their performance at a			celsius, at which materials		
Comparisons	particular task (e.g.			change state		
	mopping up a spill).					
Plants:	Identify and name		Identify and describe the		Identify the key structures	
Identifying and	common flowers and		functions of common plant		involved in plant sexual	
naming	trees found growing in		parts. Explain how their structure is suited to their		reproduction.	
	the locality.		function.			
Plants:		Sort seeds and bulbs into	Sort and classify a range of			Devise classification keys to identify
Classification		groups according their	seeds into broad dispersal			plants. Give reasons for classification.
		physical features.	methods, such as wind			
			(dandelion), water (coconut)			
			or animal (yew).			
Plants:	Identify the basic		Draw a simple diagram to		Explain why plants have	Research and describe similarities
Plant parts and	structural parts of		show how water is		flowers and why it is	and differences between different
their functions	common flowering		transported through a plant.		important for them to attract	parts of a plant.
	plants and trees,				insects and other pollinators.	
	including root, stem,					
	stalk, leaves, flowers, bulb, fruit, seeds and					
	trunk.					
	titulik.					















Plants:			Compare and describe how	Describe how plants adapts to		
Habitats and			requirements for growth vary	their different habitats (such as		
Adaptation			from plant to plant and how	rainforests, frozen etc)		
, idaptation			this relates to a plant's	Tammerests, merent etc.,		
			environment			
Plants:	Care for a growing	Describe how plants grow,	Recognise that plants make	Explain how humans can		
Growth and	seedling, observing and	identifying what a plant	their own food necessary for	impact on plants' environment		
Survival	describing its growth.	needs for healthy growth	growth and survival, storing it	in both positive and negative		
	8 8	and survival (water, light	in their leaves (they do not	ways, giving examples from		
		and a suitable	need to understand how this	their locality.		
		temperature).	happens).	,		
Plants:	Identify the seeds, as a	Recognise that plants			Describe the process of plant	
Life Cycles	part of a plant, that	produce seeds in order to			reproduction using the	
	makes a whole new	reproduce and generate			correct scientific language.	
	plant.	new plants.			Observe/comment on/record	
		Describe the requirements			plant life cycles.	
		of plants for germination.				
Plants:	Describe how plants				Grow a range of	Identify relationships between the
Seasonal	change over time,				plants/vegetables from	seasons and a typical plant life cycle
Changes	including seasonal				seeds, across the different	using observations.
	changes (leaves fall off,				seasons and note the	
	blossom, buds opening),				conditions needed for	
	including deciduous and				growth.	
	evergreen trees.					
Plants:	Name and compare		Compare and explain the			
Comparisons	familiar plants according		effect of different factors on			
	to their observable		plant growth, including light			
	features.		and nutrition.			
Light and Sound:			Identify that light is reflected	Listen to and be able to identify		Identify parts of the eye.
Identifying and			from surfaces, using	a variety of familiar sounds and		
naming			equipment such as mirrors to demonstrate.	what is vibrating in each case.		















Links and Carred.	December that double the	December that vibrations from		Describe herrordite liebt can be calit
Light and Sound:	Recognise that dark is the	Recognise that vibrations from		Describe how white light can be split
Phenomena	absence of light and describe	sound travel through a medium		using prisms and droplets of water
	how light behaves.	to the outer ear		and what colours white light is made
				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		a model or diagram, how this
		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			
Classifying	either a light source or light			
	reflector.			
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:	Recognise that light from the			
Safety	sun is damaging to vision and			
	the skin, and how we can			
	protect ourselves.			
Forces:	Name a range of familiar		Identify and define the	
Identifying and	daily activities which rely		opposing forces that act upon	
naming	upon or are caused by forces		objects: air resistance, water	
	and magnets.		resistance and friction.	
Forces:	Describe forces in action		Describe the force of gravity,	
Physical	(pulling and pushing) and		what causes it Use study skills	
processes	whether the force requires		to research the work of	















			direct contact between	scientists such as Galileo or	
			objects or whether the force	Newton.	
			can act at a distance		
			(magnetic force).		
Forces:			Explain the terms 'magnetic	Demonstrate, using a model,	
Phenomena			attraction' and 'repulsion'	how simple levers, gears and	
			and 'magnetic poles', using a	pulleys assist the movement	
			model for assistance.	of objects by using less force.	
			Notice that magnets attract		
			and repel some materials but		
			not others.		
Forces:				Make predictions supported	
			Make predictions and test	Make predictions, supported	
Testing			whether two magnets will	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 with	
Comparing			moves over surfaces made	which objects of different	
			from different materials,	shapes and surface area fall	
			making predictions and	through air or water and	
			measuring the distance	explain the reason for any	
			travelled.	differences in terms of the	
				forces acting on the objects.	
Forces:			Sort and group materials into	g ,	
Classification			those that are magnetic and		
			those that are not magnetic		
			and identify patterns within		
			these groups.		
Seasonal	Name a range of		these Broaps.		
changes:	different types of				
Identifying and	weather from pictures or				
	sounds.				
naming		Front Start In a construction of the construction			
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.		
weather	environment.	affects what we can do.		
Seasonal	Observe and record the	Identify patterns and also		
changes:	weather	similarities and differences		
Recording the	Weather	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		
THE SEASONS	30013.	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	day length changes to a		
, ,	know how it affects their	greater or lesser degree,		
	lives.	such as Arctic or equatorial		
		regions.		
Electricity:			Identify and name a range of	Identify and name components of a
Identifying and			familiar devices and equipment	circuit and define terms, such as
naming			that require electricity for	'voltage' and 'current', in relation to
			power.	series circuits.
Electricity:			Construct operational simple	Work scientifically to construct a
Series circuits			series circuits, using a range of	series circuit for a specific device or
			components and switches for	outcome and explain how it works.
			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.	















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Electricity:	Recognise that a cell (battery) is		Describe the relationship between
Current and	a power source		the number of cells, or the voltage of
voltage			a cell, and the effect this has on a
			bulb or buzzer.
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 and		a fair test to show this.
	associate metals with being		
	good conductors.		
Electricity:	Recognise the dangers of		Know how to work safely with
Safety	working with electricity and		electrical circuits.
Jan. 30,	explain how to work safely.		
Earth and Space:	explain now to work surely.	Name the eight planets of the	
Identifying and		solar system and describe	
		their position and movement	
naming		· ·	
		in relation to the sun.	
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 sun, the Earth	
Spherical bodies		and the moon as	
		approximate spherical	
		bodies.	
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
3,4 4 5.44		correct terminology and a	time zones.
		model.	
Earth and Space:		Explain how the Earth's	
Day length and		'position' affects day length.	
the seasons		position affects day length.	
the seasons			















Evolution and inheritance:	Identify a range of fossilised animals and plants from	
Identifying and	pictures.	
naming		
Evolution and inheritance: Inheritance		Recognise that living things produce offspring of the same kind but normally offspring vary and are not identical to parents. Match offspring to their parents, linked to observable features and characteristics.
Evolution and inheritance: Evolution		Recognise that living things have changed over time. Research the work of Darwin.
Evolution and inheritance: Adaptation		Identify how specific plants or animals have adapted to their environment and that adaptation may lead to evolution.
Evolution and inheritance: Fossils	Define what a fossil is and how they are formed.	Explain how fossil discoveries have helped develop the theory of evolution.
Evolution and inheritance: The future	Suggest what the fossil of the future may be.	Suggest ways in which future changes in the world's climate may impact on ourselves and other living species and suggest ideas for how we may adapt to these changes.