Science Topics		
Year 1		
Animals, including	Identify and name a variety of common animals including fish,	
humans	amphibians, reptiles, birds and mammals	
Ilulians	Identify and name a variety of common animals that are carnivores,	
	herbivores and omnivores	
	Describe and compare the structure of a variety of common animals	
	(fish, amphibians, reptiles, birds and mammals, including pets)	
	Identify, name, draw and label the basic parts of the human body and	
	say which part of the body is associated with each sense	
Plants	Identify and name a variety of common wild and garden plants, including	
	deciduous and evergreen trees	
	Identify and describe the basic structure of a variety of common	
	flowering plants, including trees	
Seasonal Changes	Observe changes across the four seasons	
	Observe and describe weather associated with the seasons and how day	
	length varies	
Everyday Materials	Distinguish between an object and the material from which it is made	
	Identify and name a variety of everyday materials, including wood,	
	plastic, glass, metal, water and rock	
	Describe the simple physical properties of a variety of everyday	
	materials	
	Compare and group together a variety of everyday materials on the basis	
.,	of their simple physical properties	
Year 2	1	
Animals, including	Notice that animals, including humans, have offspring which grow into	
humans	adults	
	Find out about and describe the basic needs of animals, including	
	humans, for survival (water, food and air)	
	Describe the importance for humans of exercise, eating the right	
	amounts of different types of food, and hygiene	
Living things and their	Explore and compare the differences between things that are living,	
habitats	dead and things that have never been alive	
	Identify that most living things live in habitats to which they are suited	
	and describe how different habitats provide for the basic needs of	
	different kinds of animals and plants, and how they depend on each	
	other	
	Identify and name a variety of plants and animals in their habitats, including microhabitats	
	Describe how animals obtain their food from plants and other animals,	
	using the idea of a simple food chain, and identify and name different	
	sources of food	
Plants	Observe and describe how seeds and bulbs grow into mature plants	
1 101113	Find out and describe how plants need water, light and a suitable	
	temperature to grow and stay healthy	
Uses of everyday	Identify and compare the suitability of a variety of everyday materials,	
	including wood, metal, plastic, glass, brick, rock, paper and cardboard for	
materials	particular uses	
	Find out how the shapes of solid objects made from some materials can	
	be changed by squashing, bending, twisting and stretching	
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Year 3	
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 plants,
	including pollination, seed formation and seed dispersal
Animals, including	Identify that animals, including humans, need the right types and
humans	amount of nutrition, and that they cannot make their own food: they get
	nutrition from what they eat
	Identify that humans and some other animals have skeletons and
	muscles for support, protection and movement
Rocks	Compare and group together different kinds of rocks on the basis of
	their 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
liebt	Recognise that sons are made from rocks and organic matter Recognise that they need light in order to see things and that dark is the
Light	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 an opaque object
	Find patterns in the way that the size of shadows change
Forces and magnets	Compare how things move on different surfaces
3.000	Notice that some forces need contact between 2 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 2 poles
	Predict whether 2 magnets will attract or repel each other, depending
	on which poles are facing
Year 4	
Living things and their	Recognise that living things can be grouped in a variety of ways
habitats	Explore and use classification keys to help group, identify and name a
	variety of living things in their local and wider environment
	Recognise that environments can change and that this can sometimes
	pose dangers to living things
Animals, including	Describe the simple functions of the basic parts of the digestive system
humans	in humans
	Identify the different types of teeth in humans and their simple functions
	Construct and interpret a variety of food chains, identifying producers,
	predators and prey
States of matter	Compare and group materials together, according to whether they are

	solids, liquids or gases
	Observe that some materials change state when they are heated or
	cooled, and measure or research the temperature at which this happens
	in degrees Celsius
	Identify the part played by evaporation and condensation in the water
	cycle and associate the rate of evaporation with temperature
Sound	Identify how sounds are made, associating some of them with
	something vibrating
	Recognise that vibrations from sounds travel through a medium to the
	ear
	Find patterns between the pitch of a sound and features of the object
	that produced it
	Find patterns between the volume of a sound and the strength of the
	vibrations that produced it
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	Recognise that sounds get fainter as the distance from the sound source
	increases
Electricity	Identify common appliances that run on electricity
	Construct a simple series electrical circuit, identifying and naming its
	basic parts, including cells, wires, bulbs, switches and buzzers
	Identify whether or not a lamp will light in a simple series circuit, based
	on whether or not the lamp is part of a complete loop with a battery
	Recognise that a switch opens and closes a circuit and associate this with
	whether or not a lamp lights in a simple series circuit
	Recognise some common conductors and insulators, and associate
	metals with being good conductors
Year 5	
Living things and their	Describe the differences in the life cycles of a mammal, an amphibian, an
habitats	insect and a bird
Habitats	Describe the life process of reproduction in some plants and animals
Animals, including	Describe the changes as humans develop to old age
humans	ger and a ger and a supplied and a s
Properties and changes	Compare and group together everyday materials on the basis of their
of materials	properties including hardness, solubility, transparency, conductivity
	(electrical and thermal), and response to magnets
	Know that some materials will dissolve in liquid to form a solution, and
	describe how to recover a substance from a solution
	Use knowledge of solids, liquids and gases to decide how mixtures might
	be separated, including through filtering, sieving and evaporating
	Give reasons, based on evidence from comparative and fair tests, for the
	particular uses of everyday materials, including metals, wood and plastic
	Demonstrate that dissolving, mixing and changes of state are reversible
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	changes
	changes Explain that some changes result in the formation of new materials, and
	Explain that some changes result in the formation of new materials, and
	Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes
Farth and snace	Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda
Earth and space	Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda Describe the movement of the Earth and other planets relative to the
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Earth and space	Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda Describe the movement of the Earth and other planets relative to the sun in the solar system

	apparent movement of the sun across the sky
Forces	Explain that unsupported objects fall towards the Earth because of the
	force of gravity acting between the Earth and the falling object
	Identify the effects of air resistance, water resistance and friction, that
	act between moving surfaces
	Recognise that some mechanisms including levers, pulleys and gears
	allow a smaller force to have a greater effect
Year 6	
Living things and their	Describe how living things are classified into broad groups according to
habitats	common observable characteristics and based on similarities and
iiabitats	differences, including micro-organisms, plants and animals
	Give reasons for classifying plants and animals based on specific
	characteristics
Animals, including	Identify and name the main parts of the human circulatory system, and
humans	describe the functions of the heart, blood vessels and blood
numans	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
Evolution and	Recognise that living things have changed over time and that fossils
inheritance	provide information about living things that inhabited the Earth millions
iiiieiitaiice	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
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
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 on switches
	Use recognised symbols when representing a simple circuit in a diagram