	Year 1	Year2	Year 3	Year 4	Year 5	Year 6
Biology Animals Including Humans	Year 1Identify and name a variety of common animals, including fish, amphibians, reptiles, birds and mammals.Identify and name a variety of common animals that are carnivores, herbivores and omnivores.Describe and compare the structure of a 	Year2 Notice that animals including humans have off spring which grows into adults. Describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating healthily and hygiene.	Year 3 Identify that animals, including humans, need the right types and amounts of nutrition, and 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, movement and protection.	Year 4 Describe the parts and functions of the digestive system in humans. Identify the different types of teeth in humans and their functions. Construct and interpret a variety of food chains, identifying producers, predators and prey.	Year 5 Describe the changes as humans develop to old age. (puberty and the changes that happen to boys and girls)	Year 6 Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Recognise impact of diet, exercise, drugs and lifestyle on the way their bodies function. Describe the ways in which nutrients are transported within animals, including humans.
Biology 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.	Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	Identify and describe the functions of different parts of a flowering plant. 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 water is transported within plants. Explore the part that flowers play in the life cycle of a flowering plants,			

		including pollination, seed formation and seed dispersal.			
Biology Living Things and their Habitats	Explore and compare the differences between things that are living, dead and things that have never been alive. Identify that most 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 micro- habitats. 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.		Recognise that living things can be grouped in a variety of ways. 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.	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird Describe the life process of reproduction in some plants and animals.	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- organisms, plants and animals. Give reasons for classifying plants and animals based on specific characteristics.
Biology 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

		J			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.
Biology	Observe above a survey				
Biology	Observe changes across				
Seasonal	four seasons. (Autumn				
changes	and Winter)				
	Ob some ab an a some so				
	Observe changes across				
	four seasons. (Spring and				
	Summer)				
	Observe and describe				
	weather associated with				
	the seasons and how day				
	length varies.				
Physics	iongini varies.		Compare how things move on	Explain that unsupported	
Forces			different surfaces.	objects fall towards the	
, 0, 003				Earth because of the force	
			Notice that some forces	of gravity acting between	
			need contact, but magnetic	the Earth and the falling	
			forces can act at a distance.	object.	
			forces can act at a distance.	00/201.	
			Observe how magnets	Identify the effects of air	
			attract and repel some	resistance, water resistance	
			materials and not others.	and friction, that act	
			maren als and not others.	between moving surfaces.	
			Compare and group together	between moving surfaces.	
			a variety of everyday	Recognise that some	
			a variety of everyday materials on the basis of		
				mechanisms, including levers,	
			whether they attracted to a	pulleys and gears, allow a	
			magnet, and identify some	smaller force to have a	
			magnetic materials.	greater effect.	

		Describe magnets as having two poles. Predict whether two magnets will attract or repel depending on which poles are facing.		
Physics 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 the eyes. Recognise that shadows are formed when the light from a light source is blocked. Find patterns in the way that the size of shadows can change.		Recognise that light appears travels 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.
Physics 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.	

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			Find patterns between the volume of a sound and the		
			strength of the vibrations		
			that produced it.		
			Recognise that sounds get		
			fainter as the distance from		
			the sound source increases.		
Physics Earth and				Describe the movement of	
Earth and Space				the Earth, and other planets,	
Space				relative to the Sun in the	
				solar system.	
				Describe the movement of	
				the Moon relative to the	
				Earth.	
				Describe the Sun, Earth and	
				Moon as approximately	
				spherical bodies.	
				Use the idea of the Earth's	
				rotation to explain day and	
				night and the apparent	
				movement of the sun across	
				the sky.	
Physics			Identify common appliances		Associate the brightness of a
Electricity			that run on electricity.		lamp or the volume of a buzzer
			Construct a simple series		with the number voltage of
			electrical circuit, identifying		cells used in the circuit.
			and naming its basic parts,		
			including cells, wires, bulbs,		
			switches and buzzers.		Compare and give reasons for
					variations in how components
			Identify whether or not a		function, including the
			lamp will light in a simple		brightness of bulbs, the

				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.		loudness of buzzers and the on/off position of switches. Use recognised symbols when representing a simple circuit in a diagram.
Chemistry Materials	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.	Uses of every day materials. Identify and compare the suitability of everyday materials for particular uses. Find out how the shapes of solid objects can be changed by squashing, bending, twisting and stretching.	Rocks Compare and group together different kinds of rocks based on their appearance and simple physical properties. Describe in simple terms how fossils are formed when living things that have lived are trapped within rock. Recognise that soils are made rocks and organic matter.	States of matter Compare and group materials together 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.	Properties and changes of materials Compare and group together everyday materials on the basis of their properties, including their 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 changes.	
		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.	

Au	umn 1 Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
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