







	Autumn	Spring	Summer
Year 1	Autumn 1: The Park Explorers- Plants Autumn 2: My body and my senses- Animals, including humans	Spring 1: Everyday materials Spring 2: Animal Groups	Summer 1: Animal Diets Summer 2: Seasonal Change
	Plants Identify and name a variety of common plants, including garden plants, wild plants and trees, and those classified as deciduous and evergreen. Identify and describe the basic structure of a variety of common plants including roots, stem/trunk, leaves and flowers Animals Including Humans Identify, name draw and label the basic parts of the human body and say which parts of the body is associated with each sense.	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, 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 physical properties. Animals Including Humans Identify and name a variety of common animals including birds, fish, amphibians, reptiles and mammals Describe and compare the structure of a variety of common animals.	Animals Including Humans Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Seasonal change Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies.







Year 2	Plants Everyday materials and their uses	Plants Living things and their habitats	Plants Animals and their habitats
	Plants Observe and describe how seeds and bulbs grow into mature plants Everyday materials and their uses. Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Plants Observe and describe how seeds and bulbs grow into mature plants 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 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 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.	Plants 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. Animals and their habitats Notice that animals, including humans, have offspring which grow into 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
	Opening Worlds Years 3, 4 and 5		







Year 3	Plants Rocks	Light Animals including humans	Forces and Magnets Animals including humans (The Bee Project)
	Plants Identify and describe the functions of different parts of plants; roots, stem, leaves and flowers. Explore the requirements of plants for life and growth (air, light, nutrients from soil and room to grow) and how they vary from plant to plant. Investigate the ways in which water is transported within plants. Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal 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.	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 their eyes Recognise that shadows are formed when the light from a light source is blocked by a solid object Find patterns in the way that the sizes of shadows change Animals, including humans Identify that animals, including humans, need the right types and amount of nutrition, and that 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, protection and movement.	Forces Compare how things move on different surfaces Notice that some forces need contact between two 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 two poles Predict whether two magnets will attract or repel each other, depending on which poles are facing. The Bee Project Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal Identify that animals, including humans, need the right types and 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
Year 4	Animals including humans States of Matter	Sound Living things and their habitats	Electricity History of Science
	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 (°C) Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature Animals, including humans Describe the simple functions of the basic	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 Recognise that sounds get fainter as the distance from the sound source increases Living things and their habitats. Recognise that living things can be grouped in a variety of ways	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
	parts of the digestive system in humans. Identify the different types of teeth in humans and their simple functions.	Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment	History of Science Explore the requirements of plants for life and growth (Y3)







	Construct and interpret a variety of food chains, identifying producers, predators and prey.	Recognise that environments can change and that this can sometimes pose dangers to living things	Notice that light is reflected from surfaces (Y3) Notice that some forces need contact between 2 objects, whilst others act at a distance, (Y3) Recognise that environments can change and that this can sometimes pose dangers to living things (Y4) Compare and group materials together (Y4)
Year 5	Space and Earth Animals including humans	Forces Living things and their habitats	Properties and changes of materials The Scientific Method
	Earth and Space Describe the movement of the Earth, and other planets, 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.	Forces and Magnets 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.	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. Understand that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution







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	Animals including humans Describe the changes as humans develop from birth to old age.	Living things and their habitats. 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.	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 The Scientific Method Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
			Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
			Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.







		 	
			Using test results to make predictions to set up further comparative and fair tests.
			Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations.
			Identifying scientific evidence that has been used to support or refute ideas or arguments.
Voor	Electricity	Evolution and Inheritance	Animals including humans
Year 6	Light		Living things and their habitats
	Electricity	Evolution and Inheritance	Animals including humans
	Associate the brightness of a lamp or the	Recognise that living things have changed over time	Identify and name the main parts of the
	volume of a buzzer with the number and	and that fossils provide information about living	human circulatory system, and explain the
	voltage of cells used in the circuit	things that inhabited the Earth millions of years ago.	functions of the heart, blood vessels and
	Compare and give reasons for variations	Recognise that living things produce offspring of the	blood
	in how components function, including	same kind, but normally offspring vary and are not	Recognise the impact of diet, exercise,
	the brightness of bulbs, the loudness of	identical to their parents	drugs and lifestyle on the way their bodies
	buzzers and the on/off position of	Identify how animals and plants are adapted to suit	function
	switches	their environment in different ways and that	Describe the ways in which nutrients and
	Use recognised symbols when	adaptation may lead to evolution	water are transported within animals,
	representing a simple circuit in a diagram.		including humans.
	Light		Living things and their habitats
	Recognise that light appears to travel in		Describe how living things are classified
	straight lines		into broad groups according to common
	use the idea that light travels in straight		observable characteristics and based on
	lines to explain that objects are seen		







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because they give out or reflect light into	similarities and differences, including
the eye	micro-organisms, plants and animals
explain that we see things because light	Give reasons for classifying plants and
travels from light sources to our eyes or	animals based on specific characteristics.
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.	



