





	Autumn	Spring	Summer
Year 1	Animals including humans	Everyday living things	Seasonal change
	Identify and name a variety of common animals that are birds, fish, amphibians, reptiles and mammals 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 (birds, fish, amphibians, reptiles and mammals, and including pets).  Identify, name draw and label the basic parts of the human body and say which parts of the body is associated with each sense.	Every day living things 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.  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	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.	Plants Observe and describe how seeds and bulbs grow into mature plants Living things and their habitats	Plants Observe and describe how seeds and bulbs grow into mature plants









	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.	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.	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
Year 3	Opening Worlds Plants Rocks	Light Rocks	Animals including humans
	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	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	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









	Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed	Compare how things move on different surfaces Notice that some forces need contact between two objects, but magnetic forces can act at a distance	
	dispersal	Observe how magnets attract or repel each other and	
	Rocks	attract some materials and not others	
	Compare and group together different	Compare and group together a variety of everyday	
	kinds of rocks on the basis of their	materials on the basis of whether they are attracted to	
	appearance and simple physical	a magnet, and identify some magnetic materials	
	properties	Describe magnets as having two poles	
	Describe in simple terms how fossils are	Predict whether two magnets will attract or repel	
	formed when things that have lived are trapped within rock	each other, depending on which poles are facing.	
	Recognise that soils are made from rocks		
	and organic matter.		
	Different types of soil		
Year 4	Opening Worlds	Living things and their habitats	Electricity
Year 4	Opening Worlds States of matter	Living things and their habitats Sound	Electricity
Year 4			Electricity
Year 4	States of matter Animals including humans States of Matter	Sound Living things and their habitats.	Electricity
Year 4	States of matter Animals including humans States of Matter Compare and group materials together,	Sound  Living things and their habitats.  Recognise that living things can be grouped in a	Electricity Identify common appliances that run on
Year 4	States of matter Animals including humans States of Matter Compare and group materials together, according to whether they are solids,	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
Year 4	States of matter Animals including humans States of Matter Compare and group materials together, according to whether they are solids, liquids or gases	Living things and their habitats.  Recognise that living things can be grouped in a variety of ways  Explore and use classification keys to help group,	Electricity Identify common appliances that run on electricity Construct a simple series electrical circuit,
Year 4	States of matter Animals including humans States of Matter Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state	Living things and their habitats.  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	Electricity Identify common appliances that run on electricity Construct a simple series electrical circuit, identifying and naming its basic parts,
Year 4	States of matter Animals including humans 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	Living things and their habitats.  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	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
Year 4	States of matter Animals including humans 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	Living things and their habitats.  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	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
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Year 4	States of matter Animals including humans 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	Living things and their habitats.  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	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









	associate the rate of evaporation with temperature  Animals, including humans  Understand the term food chain and how they can be disrupted.  Describe the conditions in the stomach/roll of oesophagus  Recall and know the structure of the small and large intestines.	Recognise that vibrations from a sound 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.  Recognise some common conductors and insulators, and associate metals with being good conductors.	Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
Year 5	Earth and Space	Properties and changes of materials	Forces and Magnets Animals including humans Living things and their habitats
	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	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 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	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 Animals, including humans Describe the changes as humans develop from birth to old age.



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		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	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.
Year 6	Electricity Light	Evolution and Inheritance	Animals including humans Living things and their habitats
	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 of switches Use recognised symbols when representing a simple circuit in a diagram. 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	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 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	Animals including humans Identify and name the main parts of the human circulatory system, and explain the functions of the heart, blood vessels and blood 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.  Living things and their habitats 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.









use the idea that light travels in straight
lines to explain why shadows have the
same shape as the objects that cast them.





