

Links to Learning across the Science Curriculum

Year 1

Year 1 Science topics	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants		<p>Plants Observe and describe how seeds and bulbs grow into mature plants</p>	<p>Plants 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.</p>		<p>Living things and their habitats Describe the life process of reproduction in some plants.</p>	
Animals including humans		<p>Animals including humans 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).</p>	<p>Animals including humans Identify that humans and some other animals have skeletons and muscles for support, protection and movement.</p>	<p>Living things and their habitats Recognise that living things can be grouped in a variety of ways. Animals including 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.</p>	<p>Living things and their habitats Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.</p>	<p>Evolution and inheritance Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.</p>

Everyday Materials		Uses of everyday materials 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	Rocks Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.	States of matter Observe that some materials change state when they are heated or cooled. Electricity Recognise some common conductors and insulators, and associate metals with being good conductors.	Properties and change of materials Compare and group together everyday materials on the basis of their properties. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic	
Seasonal Changes			Light Recognise that light from the sun can be dangerous and that there are ways to protect their eyes.		Earth and space Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	

Links to Learning across the Science Curriculum

Year 2

Year 2 Science topics	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Living things and their habitats	<p>Plants identify and name a variety of common wild and garden plants.</p> <p>Animals including humans Identify and name a variety of common animals.</p>			<p>Living things and their habitats Recognise that living things can be grouped in a variety of ways. Recognise that environments can change and that this can sometimes pose dangers to living things.</p>		<p>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.</p>
Plants	<p>Plants Identify and describe the basic structure of a variety of common flowering plants, including trees.</p>		<p>Plants 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.</p>		<p>Living things and their habitats Describe the life process of reproduction in some plants.</p>	
Animals including humans			<p>Animals including humans Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food;</p>		<p>Animals including humans Describe the changes as humans develop to old age.</p>	<p>Animals including humans Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</p>

			they get nutrition from what they eat. Identify that humans and some other animals have skeletons and muscles for support, protection and movement.			
Uses of everyday 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			States of matter Observe that some materials change state when they are heated or cooled. Electricity Recognise some common conductors and insulators, and associate metals with being good conductors.	Properties and change of materials Compare and group together everyday materials on the basis of their properties. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.	

Links to Learning across the Science Curriculum

Year 3

Year 3 Science topics	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants	Plants Identify and describe the basic structure of a variety of common flowering plants, including trees.	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.			Living things and their habitats Describe the life process of reproduction in some plants.	Animals including humans Describe the ways in which nutrients and water are transported within animals, including humans.
Animals including humans	Animals including humans Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Animals including humans 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		Animals including humans Identify the different types of teeth in humans and their simple functions.		Animals including humans Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
Rocks	Everyday Materials Compare and group together a variety of everyday materials on the basis of their simple physical properties.					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.

Light	Seasonal Changes Observe changes across the four seasons.					Light Recognise that light appears to travel in straight lines. 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.
Forces and Magnets					Forces Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.	

Links to Learning across the Science Curriculum

Year 4

Year 4 Science topics	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Living things and their habitats	<p>Animals, including humans Identify 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.</p>	<p>Living things and their habitats Identify and name a variety of plants and animals in their habitats, including microhabitats.</p>				<p>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. Give reasons for classifying plants and animals based on specific characteristics</p>
Animals including humans	<p>Animals including humans Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.</p>	<p>Living things and their 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.</p>	<p>Animals including humans Identify that humans and some other animals have skeletons and muscles for support, protection and movement.</p>			<p>Evolution and Inheritance Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</p>
States of matter	<p>Everyday Materials Describe the simple physical properties of a variety of everyday materials. Compare and group together a variety of</p>				<p>Properties and changes of materials Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through</p>	

	everyday materials on the basis of their simple physical properties.				filtering, sieving and evaporating.	
Sound	Animals including humans Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.		Animals including humans Identify that humans and some other animals have skeletons and muscles for support, protection and movement.			
Electricity						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.

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Year 5

Year 5 Science topics	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals Including Humans		Animals, including humans Notice that animals have offspring, which grow in to adults.			Living things and their habitats Life cycles of humans.	
Properties and changes of materials	Everyday Materials Identify, describe and compare a variety of everyday materials based on their physical properties.	Uses of everyday materials Identify and compare the suitability of everyday materials for particular uses	Forces and Magnets Identify magnetic materials.	States of Matter Group materials together, according to whether they are solids, liquids or gases. Understand that some materials change state when they are heated or cooled. Electricity Recognise some common conductors and insulators, and associate metals with being good conductors.		
Living things and their habitats	Animals including humans Identify animal groups: fish, amphibians, reptiles, birds and mammals Plants Identify basic structure of flowering plants.	Animals, including humans Notice that animals have offspring, which grow in to adults.	Plants Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	Living things and their habitats Recognise that living things can be grouped in a variety of ways.		

Forces	Everyday Materials Identify, describe and compare a variety of everyday materials based on their physical properties.	Uses of everyday materials Identify and compare the suitability of everyday materials for particular uses.	Forces and Magnets Compare how things move on different surfaces. Notice that some forces need contact between two objects.			
Earth and Space	Seasonal Changes Observe and describe weather associated with the seasons and how day length varies		Light Recognise that they need light in order to see things and that dark is the absence of light. Recognise that shadows are formed when the light from a light source is blocked. Notice that light is reflected from surfaces.	States of matter Group materials together, according to whether they are solids, liquids or gases	Forces Explain that unsupported objects fall towards the Earth because of the force of gravity	Light 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.

Links to Learning across the Science Curriculum

Year 6

Year 6 Science topics	Year 1	Year 2	Year 3	Year 4	Year 5
Animals Including Humans		<p>Animals including humans 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.</p>	<p>Animals including humans Identify that 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 have skeletons and muscles for support, protection and movement.</p>		
Evolution and Inheritance	<p>Animals including humans Identify and name a variety of common animals that are carnivores, herbivores and omnivores.</p>	<p>Living things and their habitats Explore and compare the differences between things that are living, dead, and things that have never been alive.</p> <p>Animals including humans Notice that animals, including humans, have offspring which grow into adults.</p>	<p>Rocks Describe in simple terms how fossils are formed when things that have lived are trapped within rock.</p>	<p>Living things and their habitats Recognise that environments can change.</p>	
Living things and their habitats	<p>Animals including humans Identify animal groups: fish, amphibians, reptiles, birds and mammals.</p> <p>Plants Identify and name a variety of common wild and garden plants.</p>	<p>Living things and their habitats Identify and name a variety of plants and animals in their habitats, including micro-habitats.</p>		<p>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.</p>	

<p>Light</p>			<p>Light Recognise that they need light in order to see things and that dark is the absence of light. Recognise that shadows are formed when the light from a light source is blocked. Notice that light is reflected from surfaces.</p>		
<p>Electricity</p>				<p>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.</p>	<p>Properties and changes of materials Compare and group together everyday materials on the basis of their properties including conductivity (electrical and thermal)</p>