

<b>Biology</b>	The study of living organisms and their structure, life-cycles, adaptations and environment
<b>Chemistry</b>	The study of the composition, behaviour and properties of matter, and elements of the Earth and its atmosphere
<b>Physics</b>	The study of energy, forces, mechanics, waves, the structure of atoms and the universe

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
FS1						Scientists and Inventors
FS2						Scientists and Inventors
Year 1	Animals including humans	Seasonal Change (Autumn & Winter)	Everyday Materials	Plants	Seasonal Change (Spring & Summer)	Scientists and Inventors
Year 2	Plants	Living Things and Their Habitat	Animals including humans	Properties and Uses of Everyday Materials	Living Things and Their Habitat (minibeasts)	Scientists and Inventors
Year 3	Rocks	Animals including humans	Forces and Magnet	Light	Plants	Scientists and Inventors
Year 4	Animals including humans	Sound	Electricity	Living Things and Their Habitat	States of matter	Scientists and Inventors
Year 5	Properties and Changes of Materials	Earth and Space	Forces	Living Things and Their Habitat	Animals including humans	Scientists and Inventors

Year 6	Light	Electricity	Living Things and Their Habitat	Animals including humans	Evolution and Inheritance	Scientists and Inventors
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Science	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
FS1	<p>Name parts of the human body: <i>head, arms, legs, back, neck, elbows, shoulders, knees, feet</i></p> <p>Understand and name different weather</p> <p>Know there are four seasons and describe changes (AUTUMN)</p> <p>Recognise and name common animals and insects (PETS): <i>dog, cat, fish, hamster. Woodland- hedgehog, squirrel, rabbit, fox, badger</i></p>	<p>Understand and name different weather</p> <p>Know there are four seasons and describe changes (WINTER)</p>	<p>Explore collections of materials with similar and/or different properties</p> <p>Talk about similarities and differences between materials (HARD/SOFT)</p> <p>Name further body parts: <i>Eyes, ears, nose, hands and mouth</i></p>	<p>Identify a plant and understand what it needs to survive: <i>Water, light, food</i></p> <p>Recognise and name common animals and insects (FARM): <i>pig, cow, sheep, horse, hen, duck. Insects- spider, caterpillar, butterfly, ladybird, fly, ant, bee</i></p>	<p>Understand and name different weather</p> <p>Know there are four seasons and describe changes (SPRING)</p> <p>Talk about similarities and differences between materials (SHINY/NOT SHINY)</p>	<p>Identify and name everyday materials <i>Wood, plastic, glass and metal</i></p> <p>Talk about similarities and differences between materials (BUMPY/SMOOTH)</p> <p>Talk about different forces they can feel/produce <i>lifting, pulling, pushing, twisting</i> Forces they can feel on their bodies <i>swings, wobble board, slides</i></p> <p>Investigate push and pull</p> <p>Know there are four seasons and</p>

						describe changes (SUMMER)
FS2	<p>Name parts of the body <i>Head, arms, legs, back, neck, elbows, shoulders, knees, feet, hands, eyes, ears, mouth, nose</i></p> <p>Understand different seasons have different weather (AUTUMN)</p> <p>Children recognise and name common animals and insects <i>Dog, cat, fish, hamster, woodland- hedgehog, squirrel, rabbit, fox, badger</i></p>	<p>Recognise and name common animals (FARM) <i>Pig, cow, sheep, horse, hen, duck</i></p> <p>Identify and name baby animals <i>Piglet, calf, duckling, chick, foal, puppy and kitten</i></p> <p>Know where animals live and what type of environment they need – FARM</p> <p>Identify and name everyday materials – wood, plastic, glass and metal</p>	<p>Recognise and name prehistoric animals – sort into dinosaur/non dinosaur</p> <p>CARNIVORE and HERBIVORE to describe dinosaur diet</p> <p>Know the role of a scientist – paleontologist</p> <p>Name common animals in the arctic <i>Polar bear, penguin, whale, walrus</i></p> <p>Know where animals live/environment – ARCTIC</p> <p>Explore changes in the season – WINTER</p>	<p>Describe what humans need to grow and stay healthy</p> <p>Identify healthy and unhealthy foods</p> <p>Know how to keep healthy (food and exercise)</p> <p>Discuss keeping teeth healthy → egg shell experiment</p> <p>Know where animals live/environment they need to live – JUNGLE</p> <p>Explain diet of jungle animals</p> <p>Talk about similarities/differences between</p>	<p>Identify a plant and understand it is a living thing</p> <p>Describe what plants need to survive <i>Water, light and food</i></p> <p>Name parts of a plant → Grow a bean plant</p> <p>Name common insects in the UK <i>spider, caterpillar, butterfly, ladybird, fly, ant, bee</i></p> <p>Know where animals live/environment they need to live</p> <p>Understand how certain animals grown and discuss</p>	<p>Identify and sort materials based on properties and results from experiments (FLOAT/SINK and HARD/SOFT)</p> <p>Understand why certain materials are better to use (WATERPROOF)</p> <p>Identify that object are made of different materials and name objects made of wood, metal and plastic</p> <p>Order the seasons, talk about similarities/differences and compare all 4</p> <p>Recognise and name common sea creatures</p>

			<p>Notice what happens to puddles when it's cold Low temperature can cause freezing + warm temperature can lead to melting</p> <p>Name 5 senses: <i>sight, hear, smell, touch and taste</i></p> <p>Use different vocabulary to describe taste <i>Sweet, sour, salty</i></p> <p>Science experiment – volcanic eruption</p>	<p>materials (SHINY/NOT SHINY)</p> <p>Explore how magnets work and experiment magnetic/non-magnetic materials</p> <p>Understand different seasons have different weather (SPRING)</p>	<p>life cycle – BUTTERFLY</p>	<p><i>Whale, dolphin, fish, octopus, jellyfish, starfish</i></p>
Year 1	<p>Animals including humans</p> <ul style="list-style-type: none"> <li>identify and name a variety of common animals including <b>fish, amphibians, reptiles, birds and mammals</b></li> <li>identify and name a variety of common animals that are <b>carnivores, herbivores and omnivores</b></li> </ul>	<p>Seasonal Change (Autumn &amp; Winter)</p> <ul style="list-style-type: none"> <li>observe changes across the 4 seasons</li> <li>observe and <b>describe weather associated</b> with the seasons and <b>how day length varies</b></li> </ul>	<p>Everyday Materials</p> <ul style="list-style-type: none"> <li><b>distinguish between</b> an <b>object</b> and the <b>material</b> from which it is made</li> <li>identify and name a variety of <b>everyday materials, including wood, plastic, glass, metal, water, and rock</b></li> </ul>	<p>Plants</p> <ul style="list-style-type: none"> <li>identify and name a variety of <b>common wild</b> and <b>garden</b> plants, including deciduous and evergreen trees</li> <li><b>identify and describe the basic structure</b> of a variety of common flowering plants, including trees</li> </ul>	<p>Seasonal Change (Spring &amp; Summer)</p> <ul style="list-style-type: none"> <li>observe changes across the 4 seasons</li> <li>observe and <b>describe weather associated</b> with the seasons and <b>how day length varies</b></li> </ul>	<p>Scientists and Inventors</p>

	<ul style="list-style-type: none"> <li>describe and compare the <b>structure</b> of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)</li> <li>identify, name, draw and <b>label the basic parts of the human body</b> and say which part of the body is associated with each sense</li> </ul>		<ul style="list-style-type: none"> <li>describe the <b>simple physical properties</b> of a variety of everyday materials</li> <li><b>compare and group</b> together a variety of everyday materials on the basis of their simple <b>physical properties</b></li> </ul>			
Year 2	<b>Plants</b> <ul style="list-style-type: none"> <li>observe and describe <b>how</b> seeds and bulbs <b>grow into mature plants</b></li> <li>find out and describe how plants need <b>water, light</b> and a <b>suitable temperature</b> to grow and stay healthy</li> </ul>	<b>Living Things and Their Habitat</b> <ul style="list-style-type: none"> <li>explore and <b>compare</b> the differences between things that are <b>living, dead, and things that have never been alive</b></li> <li>identify that most living things live in <b>habitats to which they are suited</b> and describe how <b>different habitats provide</b> for the basic needs of different kinds of animals and plants, and how they depend on each other</li> <li>identify and name a <b>variety of plants and</b></li> </ul>	<b>Animals including humans</b> <ul style="list-style-type: none"> <li>notice that animals, including humans, have <b>offspring which grow into adults</b></li> <li>find out about and describe the <b>basic needs of animals</b>, including humans, for survival (<b>water, food</b> and <b>air</b>)</li> <li>describe the importance for humans to <b>exercise, eating</b> the right amounts of different types of food, and <b>hygiene</b></li> </ul>	<b>Properties and Uses of Everyday Materials</b> <ul style="list-style-type: none"> <li>identify and <b>compare the suitability</b> of a variety of everyday materials, including <b>wood, metal, plastic, glass, brick, rock, paper and cardboard</b> for particular uses</li> <li>find out how the <b>shapes of solid objects</b> made from some materials can be changed by <b>squashing, bending, twisting</b> and <b>stretching</b></li> </ul>	<b>Living Things and Their Habitat</b>  <i>(Biodiversity – minibeasts)</i>	<b>Scientists and Inventors</b>

		<p><b>animals in their habitats</b>, including microhabitats</p> <ul style="list-style-type: none"> <li>describe how animals <b>obtain their food</b> from plants and other animals, using the idea of a <b>simple food chain</b>, and identify and name <b>different sources of food</b></li> </ul>				
Year 3	<p><b>Rocks</b></p> <ul style="list-style-type: none"> <li><b>compare and group</b> together different kinds of rocks on the basis of their <b>appearance</b> and <b>simple physical properties</b></li> <li>describe in simple terms <b>how fossils are formed</b> when things that have <b>lived</b> are <b>trapped within rock</b></li> <li>recognise that <b>soils</b> are made from <b>rocks and organic matter</b></li> </ul>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>identify that animals, including humans, need the <b>right types and amount of nutrition</b>, and that they cannot make their own food; they <b>get nutrition from what they eat</b></li> <li>identify that humans and some other animals have <b>skeletons and muscles for support, protection and movement</b></li> </ul>	<p><b>Forces and Magnet</b></p> <ul style="list-style-type: none"> <li>compare <b>how things move on different surfaces</b></li> <li>notice that some forces need contact between 2 objects, but <b>magnetic forces can act at a distance</b></li> <li>observe how <b>magnets attract or repel</b> each other and attract some materials and not others</li> <li>compare and group together a variety of <b>everyday materials</b> on the basis of whether they are <b>attracted</b> to a magnet, and identify</li> </ul>	<p><b>Light</b></p> <ul style="list-style-type: none"> <li>recognise that they need light in order to see things and that <b>dark is the absence of light</b></li> <li>notice that light is <b>reflected from surfaces</b></li> <li>recognise that light from the <b>sun</b> can be <b>dangerous</b> and that there are ways to <b>protect their eyes</b></li> <li>recognise that <b>shadows</b> are formed when the <b>light from a light source is blocked</b> by an opaque object</li> </ul>	<p><b>Plants</b></p> <ul style="list-style-type: none"> <li>identify and <b>describe the functions</b> of different parts of flowering plants: <b>roots, stem/trunk, leaves and flowers</b></li> <li>explore the <b>requirements</b> of plants for life and growth (<b>air, light, water, nutrients from soil, and room to grow</b>) and how they <b>vary</b> from plant to plant</li> <li>investigate the way in which <b>water is transported within plants</b></li> <li>explore the part that flowers play in the life <b>cycle of flowering plants</b>, including</li> </ul>	<p><b>Scientists and Inventors</b></p>

			<p>some <b>magnetic materials</b></p> <ul style="list-style-type: none"> <li>describe magnets as having <b>2 poles</b></li> <li>predict whether 2 magnets will <b>attract or repel</b> each other, depending on <b>which poles are facing</b></li> </ul>	<ul style="list-style-type: none"> <li><b>find patterns</b> in the way that the <b>size of shadows change</b></li> </ul>	<p><b>pollination, seed formation and seed dispersal</b></p>	
Year 4	<p>Animals including humans</p> <ul style="list-style-type: none"> <li>describe the simple functions of the <b>basic parts of the digestive system</b> in humans</li> <li>identify the <b>different types of teeth</b> in humans and their <b>simple functions</b></li> <li>construct and interpret a <b>variety of food chains</b>, identifying <b>producers, predators and prey</b></li> </ul>	<p>Sound</p> <ul style="list-style-type: none"> <li>identify <b>how sounds are made</b>, associating some of them with something <b>vibrating</b></li> <li>recognise that <b>vibrations</b> from sounds <b>travel through a medium</b> to the ear</li> <li>find <b>patterns</b> between the <b>pitch of a sound</b> and <b>features of the object</b> that produced it</li> <li>find <b>patterns</b> between the <b>volume of a sound</b> and the <b>strength of the vibrations</b> that produced it</li> <li>recognise that <b>sounds get fainter</b></li> </ul>	<p>Electricity</p> <ul style="list-style-type: none"> <li>identify <b>common appliances</b> that run on <b>electricity</b></li> <li><b>construct a simple series</b> electrical circuit, identifying and naming its basic parts, including <b>cells, wires, bulbs, switches and buzzers</b></li> <li><b>identify whether or not a lamp will light</b> in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery</li> <li><b>recognise that a switch opens and closes a circuit</b> and associate this with whether or not a</li> </ul>	<p>Living Things and Their Habitat</p> <ul style="list-style-type: none"> <li>recognise that living things can be <b>grouped in a variety of ways</b></li> <li>explore and use <b>classification keys</b> to help group, identify and name a variety of living things in their <b>local and wider environment</b></li> <li>recognise that <b>environments can change</b> and that this can sometimes <b>pose dangers to living things</b></li> </ul>	<p>States of matter</p> <ul style="list-style-type: none"> <li><b>compare and group materials</b> together, according to whether they are <b>solids, liquids or gases</b></li> <li>observe that some materials <b>change state</b> when they are <b>heated or cooled</b>, and <b>measure or research the temperature at which this happens</b> in degrees Celsius (°C)</li> <li>identify the part played by <b>evaporation and condensation</b> in the <b>water cycle</b> and associate the <b>rate of evaporation</b> with temperature</li> </ul>	Scientists and Inventors

		as the <b>distance</b> from the sound source <b>increases</b>	<b>lamp lights</b> in a simple series circuit <ul style="list-style-type: none"> <li>recognise some <b>common conductors</b> and <b>insulators</b>, and <b>associate metals</b> with being <b>good conductors</b></li> </ul>			
Year 5	<b>Properties and Changes of Materials</b> <ul style="list-style-type: none"> <li>compare and group together everyday materials on the basis of their properties, including their <b>hardness, solubility, transparency, conductivity (electrical and thermal)</b>, and <b>response to magnets</b></li> <li>know that some materials will <b>dissolve</b> in liquid to <b>form a solution</b>, and describe how to <b>recover a substance from a solution</b></li> <li>use knowledge of <b>solids, liquids</b> and <b>gases</b> to decide <b>how mixtures might be separated</b>, including through <b>filtering, sieving</b> and <b>evaporating</b></li> <li>give <b>reasons</b>, based on evidence from comparative and fair tests, <b>for the particular uses of</b> everyday</li> </ul>	<b>Earth and Space</b> <ul style="list-style-type: none"> <li>describe the <b>movement of the Earth</b> and <b>other planets relative to the sun</b> in the solar system</li> <li>describe the <b>movement of the moon relative to the Earth</b></li> <li>describe the sun, Earth and moon as approximately <b>spherical bodies</b></li> <li>use the idea of the <b>Earth's rotation</b> to explain <b>day and night</b> and the <b>apparent movement of the sun</b> across the sky</li> </ul>	<b>Forces</b> <ul style="list-style-type: none"> <li>explain that <b>unsupported objects fall towards the Earth</b> because of the <b>force of gravity</b> acting between the Earth and the falling object</li> <li>identify the effects of <b>air resistance, water resistance</b> and <b>friction</b>, that act between moving surfaces</li> <li>recognise that some mechanisms including <b>levers, pulleys</b> and <b>gears</b> allow a <b>smaller force to have a greater effect</b></li> </ul>	<b>Living Things and Their Habitat</b> <ul style="list-style-type: none"> <li>describe the <b>differences</b> in the <b>life cycles</b> of a <b>mammal</b>, an <b>amphibian</b>, an <b>insect</b> and a <b>bird</b></li> <li>describe the life process of <b>reproduction</b> in <b>some plants and animals</b></li> </ul>	<b>Animals including humans</b> <ul style="list-style-type: none"> <li>describe the <b>changes as humans develop to old age</b></li> </ul>	<b>Scientists and Inventors</b>



	<p>materials, including <b>metals</b>, <b>wood</b> and <b>plastic</b></p> <ul style="list-style-type: none"> <li>demonstrate that <b>dissolving</b>, <b>mixing</b> and <b>changes of state</b> are <b>reversible</b> changes</li> <li>explain that <b>some changes result in the formation of new materials</b>, and that this kind of change is <b>not usually reversible</b>, including changes associated with burning and the action of acid on bicarbonate of soda</li> </ul>					
Year 6	<p><b>Light</b></p> <ul style="list-style-type: none"> <li>recognise that light appears to <b>travel in straight lines</b></li> <li>use the idea that light travels in straight lines to explain that <b>objects are seen because they give out or reflect light into the eye</b></li> <li>explain that we see things because <b>light travels from light sources</b> to our eyes or from light sources to objects and then to our eyes</li> <li>use the idea that light travels in straight lines to explain why <b>shadows have</b></li> </ul>	<p><b>Electricity</b></p> <ul style="list-style-type: none"> <li>associate the <b>brightness of a lamp</b> or the <b>volume of a buzzer</b> with the <b>number</b> and <b>voltage of cells</b> used in the circuit</li> <li>compare and <b>give reasons for variations</b> in how components function, including the <b>brightness</b> of bulbs, the <b>loudness</b> of buzzers and the <b>on/off position of switches</b></li> </ul>	<p><b>Living Things and Their Habitat</b></p> <ul style="list-style-type: none"> <li><b>describe how living things are classified</b> into broad groups according to <b>common observable characteristics</b> and based on <b>similarities</b> and <b>differences</b>, including <b>micro-organisms</b>, <b>plants</b> and <b>animals</b></li> <li><b>give reasons for classifying</b> plants and animals <b>based on specific characteristics</b></li> </ul>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>identify and name the <b>main parts of the human circulatory system</b>, and <b>describe the functions</b> of the <b>heart</b>, <b>blood vessels</b> and <b>blood</b></li> <li>recognise the <b>impact of diet</b>, <b>exercise</b>, <b>drugs</b> and <b>lifestyle</b> on the way their bodies function</li> <li>describe the ways in which <b>nutrients and water</b> are <b>transported within</b></li> </ul>	<p><b>Evolution and Inheritance</b></p> <ul style="list-style-type: none"> <li>recognise that <b>living things have changed</b> over time and that <b>fossils provide information</b> about living things that inhabited the Earth millions of years ago</li> <li>recognise that living things <b>produce offspring of the same kind</b>, but normally offspring vary and are not identical to their parents</li> <li>identify how <b>animals and plants are adapted to suit their environment</b> in</li> </ul>	<p><b>Scientists and Inventors</b></p>

	the same shape as the objects that cast them	<ul style="list-style-type: none"><li>• use <b>recognised symbols</b> when <b>representing a simple circuit</b> in a diagram</li></ul>		<b>animals</b> , including humans	different ways and that <b>adaptation may lead to evolution</b>	
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