

## Science overview

	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>Year 1</b>	<p><b>Animals including humans</b> Body parts senses UK animals- grouping</p> <p><b>Seasons 1- Autumn</b></p>	<p><b>Animals including humans-</b> cold places grouping, Penguins</p> <p><b>Everyday Materials</b> Identify, name, sort Materials for purpose</p>	<p><b>Everyday materials</b> Physical properties Sort Floating and sinking Umbrella</p> <p><b>Seasons 2 - Winter</b></p>	<p><b>Animals including humans</b> Australian animals Carnivore, herbivore, omnivore</p> <p><b>Seasons 3 - Spring</b></p>	<p><b>Plants</b> Identify common garden and wild plants</p> <p>Investigate plant growth</p>	<p><b>Seasonal changes</b> Summer Compare and contrast Weather Day length</p> <p>Plan a simple investigation</p>
<b>Year 2</b>	<p><b>Living things and their habitats</b> Hygiene Living, never living, dead Processes common to life Simple food chains</p>	<p><b>Everyday materials</b> Changing the shape of materials Suitability for different uses Building materials</p>	<p><b>Animals including humans</b> Animals grow into adults. Basic needs for survival Diet exercise</p>	<p><b>Living things and their habitats</b> What is a habitat? Hedgerow vs pond Woodlice habitat Woodland Coastal desert</p>	<p><b>Plants</b> Grow seeds and bulbs Conditions needed to grow Nature walk Investigate plant growth in nature</p>	<p><b>Everyday materials</b> Plastics – their uses and the problems Recycling Research John Dunlop Investigate materials suitable for tyres</p>
<b>Year 3</b>	<p><b>Animals including humans</b> Describe functions of the skeleton Explain how muscles help us to move Vertebrates vs invertebrates</p>	<p><b>Rocks and soil</b> Rock sorting Compare rocks on properties Rock modelling Fossil formation Investigate soil Compare soils</p>	<p><b>Light</b> Show light is needed to see Explore reflection Investigate how shadows are formed</p>	<p><b>Animals including humans</b> Nutrition- balanced diet Nutrients and their uses Food labels Design a lunchbox Animal diets</p>	<p><b>Plants</b> Function of different plant parts Requirements for growth Water transport Flower and seed formation Seed dispersal</p>	<p><b>Forces</b> What is a force? Friction ramps Best shoe grip Observe magnets Compare magnetic materials Test magnets</p>
<b>Year 4</b>	<p><b>Living things and their habitats</b> Group and sort animals Use classification keys Vertebrate groups Invertebrate groups</p>	<p><b>Sound</b> Identify sources How sound is made String telephones Pitch and volume Investigate how sound changes with distance</p>	<p><b>Animals including humans</b> Digestion Name and describe function of all parts Identify different types of teeth and their functions</p>	<p><b>States of matter</b> Group according to state Observe temperature at which change of state occurs Evaporation and the water cycle</p>	<p><b>Animals including humans</b> Food chains Food webs Woodland food webs Disruption of food webs Red kite introduction</p>	<p><b>Electricity</b> Battery vs mains Simple circuits Observe impact of simple changes in circuit Electrical conductors Switches</p>

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<p><b>Year 5</b></p>	<p><b>Living things and their habitats</b>            Plant reproduction            Plant lifecycle            Asexual reproduction in plants            Lifecycle of amphibians vs insects            Lifecycle of bird vs mammal            Research Jane Goodall</p>	<p><b>Materials</b>            Compare materials based on their properties            Dissolving            Separating mixtures            Irreversible changes</p>	<p><b>Forces</b>            Recognise more than one force can act on an object            Weight and mass            Friction            Air resistance            Buoyancy and water resistance</p>	<p><b>Forces</b>            Simple machines            Levers            Pulleys            gears</p>	<p><b>Space</b>            Flat Earth vs sphere            Solar system            Night and day            Movement of the moon            Crater formation            Research about space</p>	<p><b>Animals including humans</b>            Child development            Puberty            Conception            Animal gestation            Growth survey            Human timeline</p>
<p><b>Year 6</b></p>	<p><b>Evolution and inheritance</b>            Fossils as evidence            Inheritance            Adaptation to environment            Mutations            Adaptation and natural selection            Darwin's finches</p>	<p><b>Animals including humans</b>            Name main organs            Parts of the circulatory system            Heart structure            Blood functions            Water and nutrient transport            Impact of exercise</p>	<p><b>Living things and their habitats</b>            Why we classify            Animal classification – broad groups            Use and create keys            Fungi -Investigating mould growth            Plant classification</p>	<p><b>Light</b>            Light travels in straight lines            Reflection angles            Shadow investigation            Refraction of light</p>	<p><b>Electricity</b>            Use circuit symbols            Changing bulb brightness            Wire thickness            Conductive dough            Uses of switches</p>	<p><b>Animals including humans</b>            Diet            Importance of exercise            Smoking            Drugs            Research John Boyd Orr</p>