

## Science Curriculum Overview

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Everyday materials	Animals including humans	Animals, including humans Animal groups	Seasonal change	Plants – naming parts and identifying plants and trees	Everyday materials
Year 2	Materials and their uses		Animals and humans - healthy living	Living things Habitats	Plants Growing seeds and bulbs	Living things Growing conditions food chains
Year 3	Rocks and soils	Light and shadow	Forces and Magnets Friction	Animals including humans senses	Plants function of parts investigating plants and growth	Consolidation  Outdoor Learning
Year 4	Animals including humans: Food chains, Digestive system and Teeth	Animals including humans classification, habitats	States of matter The Water Cycle	Sound Vibrations	Electricity circuits, conductors and insulators	Consolidation  Outdoor Learning
Year 5	Forces air and water resistance, friction and gravity	Properties of materials	Changes in materials	Living things life cycles	Earth and Space	Animals and humans infancy to old age Puberty
Year 6	Classification including micro-organisms	Light	Electricity Changing circuits	Evolution and inheritance	Circulatory system	Habitats

## Science in Foundation Stage

The EYFS framework is structured very differently to the National Curriculum as it is organised across seven areas of learning and development rather than subject areas. This document shows how the skills taught across EYFS feed into National Curriculum subjects. This document demonstrates which statements from the 2020 Development Matters are prerequisite skills for Science within the National Curriculum. The table below outlines the most relevant statements taken from the Early Learning Goals in the EYFS Statutory Framework and the Development Matters age ranges for Three and Four Year-Olds and Foundation Stage to match the programme of study for Science.

	Three and Four Year Olds	Foundation Stage	Early Learning Goals
Communication and Language	<ul style="list-style-type: none"> <li>• Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"</li> </ul>	<ul style="list-style-type: none"> <li>• Learn new vocabulary.</li> <li>• Ask questions to find out more and to check what has been said to them.</li> <li>• Articulate their ideas and thoughts in well-formed sentences.</li> <li>• Describe events in some detail.</li> <li>• Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen.</li> <li>• Use new vocabulary in different contexts.</li> </ul>	<p><b>Listening, Attention and Understanding</b></p> <ul style="list-style-type: none"> <li>• Make comments about what they have heard and ask questions to clarify their understanding</li> </ul>
Personal, Social and Emotional Development	<ul style="list-style-type: none"> <li>• Make healthy choices about food, drink, activity and toothbrushing.</li> </ul>	<p>Know and talk about the different factors that support their overall health and wellbeing: - regular physical activity - Managing Self</p> <ul style="list-style-type: none"> <li>• Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the healthy eating - toothbrushing - sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian.</li> </ul>	<p><b>Managing Self</b></p> <ul style="list-style-type: none"> <li>• Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.</li> </ul>

<p><b>Understanding the World</b></p>	<p>Use all their senses in hands-on exploration of natural materials.</p> <ul style="list-style-type: none"> <li>• Explore collections of materials with similar and/or different properties.</li> <li>• Talk about what they see, using a wide vocabulary.</li> <li>• Begin to make sense of their own life-story and family's history.</li> <li>• Explore how things work.</li> <li>• Plant seeds and care for growing plants.</li> <li>• Understand the key features of the life cycle of a plant and an animal.</li> <li>• Begin to understand the need to respect and care for the natural environment and all living things.</li> <li>• Explore and talk about different forces they can feel.</li> <li>• Talk about the differences between materials and changes they notice.</li> </ul>	<p>Explore the natural world around them.</p> <ul style="list-style-type: none"> <li>• Describe what they see, hear and feel while they are outside.</li> <li>• Recognise some environments that are different to the one in which they live.</li> <li>• Understand the effect of changing seasons on the natural world around them.</li> </ul>	<p><b>The Natural World</b></p> <ul style="list-style-type: none"> <li>• Explore the natural world around them, making observations and drawing pictures of animals and plants.</li> <li>• Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.</li> <li>• Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</li> </ul>
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