

Science Curriculum Overview 2023-2024



	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
Nursery	<p>Plants</p> <p>Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things. Talk about the differences between materials and changes they notice.</p>	<p>Living things and their habitats</p> <p>Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and different properties. Understand the need to respect and care for the natural environment and all living things.</p>	<p>How things work</p> <p>Explore and talk about the different forces they can feel.</p>	<p>Seasonal changes</p> <p>Understand the key features of the life cycle of a plant and an animal</p>	<p>Living things and their habitats</p> <p>Begin to make sense of their own life story and family's history. Understand the key features of the life cycle of a plant and an animal. Understand the need to respect and care for the natural environment and all living things.</p>	<p>Materials</p> <p>Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and different properties. Talk about the differences between materials and changes they notice.</p>

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Reception	<p>Plant</p> <p>Draw information from a simple map</p> <p>Explore the natural world around them</p> <p>Describe what they see, hear and feel whilst outside</p> <p>Recognise some environments that are different to the one in which they live</p> <p>Understand the effect of changing seasons on the natural world around them</p>	<p>Living things and their habitats</p> <p>Draw information from a map</p> <p>Explore the natural world around them</p> <p>Describe what they see, hear and feel whilst outside</p> <p>Recognise some environments that are different to the one which they live</p>	<p>Forces</p> <p>Explore how things work</p> <p>Explore and talk about different forces they can feel</p> <p>Talk about the differences between materials and changes they notice.</p> <p>Explore the natural world around them</p> <p>Describe what they see, hear and feel whilst outside</p>	<p>Seasonal changes</p> <p>Explore the natural world around them</p> <p>Describe what they see, hear and feel whilst outside</p> <p>Understand the effect of changing seasons on the natural world around them</p>	<p>Animals including humans</p> <p>Talk about members of their immediate family and community</p> <p>Name and describe people who are familiar to them</p> <p>Recognise some environments that are different to the one in which they live</p>	<p>Materials</p> <p>Explore the natural world around them</p> <p>Describe what they see, hear and feel whilst outside</p>
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EYFS scientific Enquiry	<p>Expectations for the Early Years Foundation Stage (EYFS) in terms of scientific inquiry and curiosity:</p> <p>Work Scientifically:</p> <ul style="list-style-type: none">• Show curiosity about objects, events, and people.• Ask simple questions about why things happen.• Engage in open-ended activities that encourage exploration and experimentation.• Observe closely, using basic equipment to support their observations. <p>Playing & Exploring:</p> <ul style="list-style-type: none">• Encourage children to take risks, engage in new experiences, and learn through trial and error.• Support them in performing simple tests to investigate their ideas and hypotheses.• Foster their problem-solving skills, helping them find new ways to do things and test their theories.• Promote the identification and classification of objects, sequences, and cause-and-effect relationships. <p>The World:</p> <ul style="list-style-type: none">• Encourage children to notice and understand similarities and differences in places, objects, materials, and living things.• Help them use their observations and ideas to suggest answers to questions about the world around them.• Foster their ability to comment and ask questions about aspects of their familiar world, such as their local environment and the natural world. <p>Observation and Exploration:</p> <ul style="list-style-type: none">• Guide children to gather and record data to help answer questions.• Encourage them to closely observe the behaviours of animals, people, and vehicles, fostering their understanding of the world.					

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- Utilise their senses to explore and engage with the world around them.

Critical Thinking:

- Support children in making links and noticing patterns in their experiences.
- Teach them to choose the appropriate resources for their chosen activities.

Self-Confidence & Self-Awareness:

- Help children handle equipment and tools effectively, boosting their confidence and coordination.

Being Imaginative:

- Encourage them to create simple representations of events, people, and objects.
- Nurture their ability to answer how and why questions about their experiences.

Understanding:

- Promote the making of observations of animals and plants.
- Encourage them to explain why certain things occur and talk about changes in the natural world.
- Support them in developing their narratives and explanations by connecting ideas or events.
- Assist them in building a vocabulary that reflects the breadth of their experiences.

These expectations for the EYFS stage set the foundation for fostering scientific curiosity and inquiry in young children, allowing them to explore, ask questions, and develop critical thinking skills in a nurturing and playful environment.

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Year 1	<u>Plants and trees</u>	<u>Light and dark</u>	<u>Push and pull</u>	<u>Seasonal change</u>	<u>Classifying types of animals</u>	<u>Materials</u>
Year 2	<u>Materials</u>	<u>Electricity</u>	<u>Materials - water, steam, ice</u>	<u>Animals including humans</u>	<u>Plants</u>	<u>Living things: habitats and food chains</u>
Year 3	<u>Rocks and fossils</u>	<u>Comparing different animals</u>	<u>Light</u>	<u>Forces and magnets</u>	<u>Plants: comparing and photosynthesis</u>	<u>Teeth and eating</u>
Year 4	<u>States of matter</u>	<u>Electricity</u>	<u>Friction</u>	<u>Sound</u>	<u>Plants, animals and habitats</u>	<u>Animals, humans and food chains</u>
Year 5	<u>Properties and changes of materials</u>	<u>Gases</u>	<u>Animals and humans: birth, growth and old age</u>	<u>Forces</u>	<u>Life of animals and plants</u>	<u>Earth and space</u>
Year 6	<u>Light</u>	<u>Electricity</u>	<u>Evolution and inheritance</u>	<u>Dissolving</u>	<u>Living things and their habitats</u>	<u>Animals including humans</u>