Science in EYFS at Beechwood Primary School





At Beechwood Primary School, we have a nursery and reception. Children who attend receive amazing provision and inputs which introduce them to the world of science. Children are encouraged to communicate in a scientific way: talking about what they see and asking lots of questions. In Nursery and Reception, children are introduced to key scientific principals through their play-based learning and topic work.

Through their Autumn topics, children learn about themselves and become more aware of their bodies. In Spring, children explore concepts of creating mixtures and exploring different materials, the key building blocks of chemistry. The children learn about New Life and are introduced to simple life cycles and classification. This prepares them for Year One, where they will learn more about vertebrates and identifying plants and their parts. In EYFS, the children learn about animals and plants in our immediate area and in other countries. This involves lots of hands-on exploration and creates a solid foundation for biology work in the future. Principals of physics are introduced through 'Understanding the World' work, learning about forces and technology through exploration of the World around them.

Lots of work in EYFS takes place outdoors, with children being able to explore and enjoy the wonders of the natural world around them.

Nursery children	Communication and language	• Understanding 'why' questions
	Personal, Social and Emotional Development	• Make healthy choices about food, drink, activity and toothbrushing.
	Understanding the World	• Use all their senses in hands-on exploration of natural materials. • Explore collections of materials with similar and/or different properties. • Talk about what they see, using a wide vocabulary. • Begin to make sense of their own life-story and family's history. • Explore how things work. • 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. Explore and talk about different forces they can feel. Talk about the differences between materials and changes they notice.
Reception children	Communication and Language	• Learn new vocabulary. • Ask questions to find out more and to check what has been said to them.

		• Articulate their ideas and thoughts in well-formed sentences. • Describe events in some detail. • Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. • Use new vocabulary in different contexts. • **Make comments about what they have heard and ask questions to clarify their understanding - ELG**
	Personal, Social and Emotional Development	• Know and talk about the different factors that support their overall health and wellbeing: - regular physical activity - healthy eating - toothbrushing - sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian • **Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices - ELG**
	Understanding the World	• Explore the natural world around them. • Describe what they see, hear and feel while they are outside. • Recognise some environments that are different to the one in which they live. • Understand the effect of changing seasons on the natural world around them. • **Explore the natural world around them, making observations and drawing pictures of animals and plants - ELG** • **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 - ELG** • **Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter - ELG**

Beechwood Primary School Science Team

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