

EYFS and Science at Hayward's Primary School

The new EYFS Framework became statutory in September 2021. It is structured differently to the National Curriculum and is organised across seven areas of learning rather than subject areas, which all interlink. This document shows how the skills taught across the EYFS feed into the National Curriculum subject of Science and lend themselves to be the pre-requisite skills children need in this subject. It is also important to remember that underpinning the EYFS Framework are the Characteristics of Effective Teaching and Learning (CoETL) which detail the ways in which children should be learning from their environment, experiences and activities. These also need to be considered when thinking about how the EYFS Framework links to a certain National Curriculum subject. The table below outlines the relevant **statutory Educational Programmes** linked to **Science**, which involves activities and experiences for children, as set out under each of the areas of learning, information on the **non-statutory Development Matters** document and the **Characteristics of Effective Teaching and Learning**.

This document also shows which statements from the **2021 Development Matters** are prerequisite skills for Science within the National Curriculum.

Physical Development Educational Programme

Physical activity is vital in children's all-round development, enabling them to pursue happy, healthy and active lives. Gross and fine motor experiences develop incrementally throughout early childhood, starting with sensory explorations and the development of a child's strength, coordination and positional awareness through tummy time, crawling and play movement with both objects and adults. By creating games and providing opportunities for play both indoors and outdoors, adults can support children to develop their core strength, stability, balance, spatial awareness, co-ordination and agility. Gross motor skills provide the foundation for developing healthy bodies and social and emotional well-being. Fine motor control and precision helps with hand-eye co-ordination, which is later linked to early literacy. Repeated and varied opportunities to explore and play with small world activities, puzzles, arts and crafts and the practice of using small tools, with feedback and support from adults, allow children to develop proficiency, control and confidence.

Understanding the World Educational Programme

Understanding the world involves guiding children to make sense of their physical world and their community. The frequency and range of children's personal experiences increases their knowledge and sense of the world around them – from visiting parks, libraries and museums to meeting important members of society such as police officers, nurses and firefighters. In addition, listening to a broad selection of stories, non-fiction, rhymes and poems will foster their understanding of our culturally, socially, technologically and ecologically diverse world. As well as building important knowledge, this extends their familiarity with words that support understanding across domains. Enriching and widening children's vocabulary will support later reading comprehension.





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Expressive Arts and Design Educational Programme

The development of children's artistic and cultural awareness supports their imagination and creativity. It is important that children have regular opportunities to engage with the arts, enabling them to explore and play with a wide range of media and materials. The quality and variety of what children see, hear and participate in is crucial for developing their understanding, self-expression, vocabulary and ability to communicate through the arts. The frequency, repetition and depth of their experiences are fundamental to their progress in interpreting and appreciating what they hear, respond to and observe.

Communication and Language Educational Programme

The development of children's spoken language underpins all seven areas of learning and development. Children's back-and-forth interactions from an early age form the foundations for language and cognitive development. The number and quality of the conversations they have with adults and peers throughout the day in a language-rich environment is crucial. By commenting on what children are interested in or doing, and echoing back what they say with new vocabulary added, practitioners will build children's language effectively. Reading frequently to children, and engaging them actively in stories, non-fiction, rhymes and poems, and then providing them with extensive opportunities to use and embed new words in a range of contexts, will give children the opportunity to thrive. Through conversation, story-telling and role play, where children share their ideas with support and modelling from their teacher, and sensitive questioning that invites them to elaborate, children become comfortable using a rich range of vocabulary and language structures.

Development Matters

"The EYFS is about how children learn, as well as what they learn. Children need opportunities to develop their own play and independent exploration."

The Development Matters is a **non-statutory** document for EYFS which has been created to support practitioner's understanding of child development and their delivery of teaching. This is a document to guide practitioners to design an effective Early Years curriculum and overall support professional judgement enabling children's individual needs to be supported and build upon their strengths. Other areas of learning will also feed into **Science**, for example, the area of Communication and Language plays a significant role in children being able talk about and explain their understanding and to ask questions etc. Please refer to this document for an in depth view of progress within the above areas.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/ file/1007446/6.7534 DfE Development Matters Report and illustrations web 2 .pdf

Development Matters Statements 2020				
Three and Four- Year-Olds	Communication and Language	 Understand 'why' questions, like: "Why do you think the caterpillar got so fat?" 		
	Personal, Social and Emotional Development	 Make healthy choices about food, drink, activity and toothbrushing. 		

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	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.
	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
	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.
Early Learning Goals	Communication and Language	Listening, Attention and Understanding	 Make comments about what they have heard and ask questions to clarify their understanding.
	Personal, Social and Emotional Development	Managing Self	 Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

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Understanding the World	The Natural World	 Explore the natural world around them, making observations and drawing pictures of animals and plants. 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. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 		
Characteristics of Effective Teaching and Learning				
• Playing and Exploring – children investigate and experience things, and 'have a go'				

- Active Learning children concentrate and keep on trying if they encounter difficulties, and enjoy achievements
- **Creating and Thinking Critically** children have and develop their own ideas, make links between ideas, and develop strategies for doing things