

The Foundations of Science



At the John Henry Newman Academy we understand that the Early Years Foundation Stage (EYFS) is structured very differently to the national curriculum as it is organised across 7 areas of learning, rather than discrete subjects.

Each subject leader endeavours to make sure their subject meets the need of every child in the school, from Nursery to Year 6. Therefore, this document shows which statements and areas from the '2020 Development Matters' are essential knowledge and skills for Science in The National Curriculum. The table below outlines the most relevant statements taken from the Early Learning Goals (ELG) in the EYFS statutory framework, the Development Matters age ranges for the Three and Four-Year-Olds and Reception as well as any relevant texts outlined to match the programme of study for Science.

Science		
Programme of Study	EYFS Area	Statements
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 tooth brushing.
	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	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 • Tooth brushing • 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 in. • Understand the effect of changing seasons on the natural world around them.

ELG	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.
	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 contrasting environments, drawing on their experiences and what has been read in class.