



Learning in EYFS:

What Science Subject Leaders Need to Know

The EYFS framework is structured very differently to the national curriculum as it is organised across seven areas of learning rather than subject areas. The aim of this document is to help subject leaders to understand 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 Reception to match the programme of study for science.

The most relevant statements for science are taken from the following areas of learning:

- Communication and Language
- Personal, Social and Emotional Development
- Understanding the World

Taken from St Mary's Catholic Academy EYFS LTP 22-23

Nursery	<p>Children will know the names of body parts: heads, arms, hands, legs, feet, neck.</p> <p>Children will explore and explain changes that happen in autumn</p>	<p>Children can recognise and talk about melting and freezing</p>	<p>Children will make collections of natural materials to investigate and talk about.</p> <p>Children will explore and explain changes that happen in Winter</p>	<p>Children will know that a chick comes from an egg.</p> <p>Children will know how to respect and care for living things.</p> <p>Children can explain changes around them in Spring Children will go on a Spring walk</p>	<p>Children will know that seeds can turn into plants. Children will begin to understand how it takes time to grow fruit and vegetables.</p> <p>Children will plant and grow a fruit/vegetable/herb.</p>	<p>Children will explore and talk about forces including magnets, floating/sinking and stretching.</p> <p>Children will explore and explain changes that happen in Summer</p>
Reception	<p>Children will know the names of body parts: shoulders, elbows, knees, ankles.</p> <p>Children will know the 5 senses.</p>	<p>Children will identify materials that we can recycle, including plastic, paper and metal.</p> <p>Children will know what material a</p>	<p>Children will know that this time of year is Winter.</p> <p>Children will explore floating and sinking.</p> <p>Children will build on their</p>	<p>Children will observe changes and growth of chicks.</p> <p>Children will know the life cycle of a chick.</p> <p>Children will</p>	<p>Children will know the names of the 4 seasons and weather associated with them.</p> <p>Children will know the life cycle of a sunflower.</p> <p>Children will know</p>	<p>Children will know that this time of year is Summer.</p> <p>Children will know that some animals can live underwater.</p>

	Children will know that this time of year is Autumn.	magnet picks up.	<p>knowledge of freezing and melting and will explore freezing different liquids</p> <p>Children will know that a liquid is a materials you can pour</p> <p>Children will know that we can freeze some liquids and that they will become solid. They will also learn that some solids can become liquid by melting</p>	<p>know that this time of year is Spring.</p> <p>Children will explore which materials would be best to make a superhero cape – paper, cardboard, fabric or foil</p>	<p>how to care for a plant.</p> <p>Children will observe how a tree has changed over the 4 seasons.</p>	
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Outcomes from Development Matters

Science		
Three and Four-Year-Olds	Communication and Language	<ul style="list-style-type: none"> • Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"
	Personal, Social and Emotional Development	<ul style="list-style-type: none"> • Make healthy choices about food, drink, activity and toothbrushing.
	Understanding the World	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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.
Reception	Personal, Social and Emotional Development		<ul style="list-style-type: none"> • Know and talk about the different factors that support their overall health and wellbeing: <ul style="list-style-type: none"> - regular physical activity - healthy eating - toothbrushing - sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian
	Understanding the World		<ul style="list-style-type: none"> • 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.
ELG	Communication and Language	Listening, Attention and Understanding	<ul style="list-style-type: none"> • Make comments about what they have heard and ask questions to clarify their understanding.
	Personal, Social and Emotional Development	Managing Self	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

