

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



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 Continued	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.

In Foundation Stage 1 (Nursery) children:

- Talk about healthy food choices, selecting, eating and tidying away their own snack at snack time
- Learn about the importance of handwashing and are taught how to wash and dry their hands
- Learn independent dressing skills including putting on a coat using the 'upside down' coat method, putting on gloves and putting their backpack on
- Explore the Seasons, seasonal change and weathers through daily outside learning time, a weekly 'Welly Boot Wednesday' session and seasonal walks
- Explore pushes and pulls through a variety of resources and experiences
- Explore materials and talk about how different materials feel and look
- Learn parts of their bodies through songs including 'heads, Shoulders, knees and Toes' and 'Them Bones'
- Learn about pets and farm animals – farm visit
- Learn about looking after animals through observing for example 'Woody' the hamster and in play such as 'vet' themed role play
- Learn about plants by planting seeds to grow in nursery's garden
- Observe change such as watching plants grow and tadpoles develop.
- Develop a sense of curiosity and exploration through a range of resources and the provision, e.g. exploring the differences between wet and dry sand

In Foundation Stage 2 (Reception) children build upon the good practice in FS1 and in addition to these:

- Talk about their learning for a range of different purposes, e.g. to question, to predict, to explain, to generalise, to reflect
- To begin to record their observations for instance talking to an adult, recording on a simple given table
- Extend their scientific vocabulary to include words such as: strong, weak, waterproof, not waterproof, nocturnal, diurnal, habitat, melt,

- Learn about different habitats, e.g. woodland, sea life
- Learn about native wild animals in more depth, e.g. hedgehogs, bees, butterflies
- Learn in more depth about plants by planting a variety of different seeds including cress, grass, beans and sunflower seeds
- Learn in more depth about life cycles by exploring for example the life cycle of a plant and an animal such as a caterpillar – visit to butterfly park
- Observe change by watching caterpillars grow into butterflies
- Learn about road safety through continuous provision and road safety workshops
- Explore the seasons, seasonal changes and weathers in greater depth through experiences such as collecting and measuring rainwater, building a hedgehog house

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