

## **EYFS Curriculum Progression**

## <u>Understanding the World – Science</u>

In Early Years understanding the world through science is an important part of our curriculum. It allows the children to explore and experiment using a range of materials and resources. We encourage the investigation of the world around us. We provide the opportunities to develop and extend skills and an opportunity to express their individual interests, thoughts and ideas. Teaching in the Early Years Foundation Stage is underpinned by the Characteristics of Effective Learning.

Science in Early Years is very exploratory. We aim for activities based around science to be fun and inspiring. We engage our children through experiments allowing opportunities to plan and carry out ideas, predictions and reflections. Science allows our children to explore why things happen and how things work through observation, exploration and technology. Science is planned in-line with the development matters statements and our focus is to promote critical thinking and problem solving.

Alongside planned learning, children are encouraged to follow their own interests and create ideas around their own fascinations.

Implementation:	Learning experiences	Key vocabulary & what children	<u>Outcomes</u>
		need to know	
Caterpillars	Provide visual aids and resources such as books,	Questions: What? Where? Who?	Explore materials with different
Nursery 2 year old Provision	small world and investigative toys.	See, notice, find, look, look closely, lift,	properties.
	During group times or activities talk about things they see in their environment.	press, tap, push, pull, twist, up, down, open, shut/close, mix, stir, add, mould, shape, same, different,	Explore natural materials, indoors and outside.
	Encourage children to explore small world, and investigative toys. Cooking/baking activities. Dinosaurs and animals, natural objects.		Explore and respond to different natural phenomena in their setting
	Talk about what we have seen, made, noticed.		

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<u>Butterflies</u>	Talking about the natural world, providing natural	Ask and answer questions:	Use all their senses in hands-on
Preschool provision	objects such as stones, shells, leaves, sticks, pine	What? Where? Who? How? When?	exploration of natural materials.
	cones.	Why?	
	Books and toys on subjects such as:		Explore collections of materials
	Dinosaurs/animals/space/plants/human body	Because	with similar and/or different
			properties.
	Planting activities, life cycle studies, scientific	See, notice, find, look, look closely,	
	experiments (for example egg in vinegar, milk and	lift, press, tap, push, pull, twist, up,	Talk about what they see, using a
	food colouring) Forest school sessions.	down, open, shut/close, mix, stir,	wide vocabulary.
		add, mould, shape, same, different,	
	Talk about what has happened, how, why?	changes, growing, living, caring,	Explore how things work.
	Encourage children to ask appropriate questions and	describe, ingredients. Able to name	Plant seeds and care for growing
	explore and/or record findings.	items/animals/plants/ingredients.	plants.
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			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

<b>Holly Class</b>
Reception

Encourage talking about how things change over time and why. Books and visual aids provided to develop understanding of natural changes. Toys and resources linked to threshold concepts in science support the observation skills. e.g Light box, magnifying glasses, rocks, shells fossils, magnets, circuits and loose parts.

Children are encouraged to observe each stage of changes during experiments/activities and are provided with a rich vocabulary in order to discuss scientific threshold concepts.

Activities are planned around life cycles, planting, baking, space. Forest School plans for exploration of the natural world, looking for similarities and differences and spotting changes in the seasons.

Children are asked to explain findings, and explain why things occur and how changes happen.
Investigations based around plants, changing materials and seasons are planned for.

Questions: What? Where? Who? How? When? Why?

Because...

See, notice, find, look, look closely, lift, press, tap, push, pull, twist, up, down, open, shut/close, mix, stir, add, mould, shape, same, different, similar, like,

Describe, explain,

Explore the natural world around them.

Describe what they see, hear and feel whilst outside.

Understand the effect of changing seasons on the natural world around them.

Early Learning Goal 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.