

Science Progression Document



Early Learning Goals

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.

Nursery	Reception
Disciplinary knowledge	Disciplinary knowledge
Show curiosity and ask questions	Describe what they see, hear and feel whilst outside.
Make observations using senses and simple equipment	Begin to expose to working scientifically skills to prepare for year 1:
Make direct comparisons	Ask simple questions when prompted
Use equipment to measure	Make simple predictions
Record observations by drawing, taking photos, using sorting rings	Make relevant observations
Use observations to help answer questions	Record observations by drawing, taking photos, using sorting rings and simple tick
Talk about what they are doing and have found out	sheets
Identify, sort and group	Conduct simple tests, with support
	Use equipment to measure
	Identify and classify with guidance
Substantive knowledge	Gather data as a group, with support
Use all senses in hands-on exploration of natural materials.	Use observations to suggest answers to simple questions
Talk about what they see, using a wide vocabulary.	Explore the natural world around them — all child-led, based on what children notice and
Explore how things work.	what they are interested in. Might include (but not limited to): ice, shadows, light, insects,
Explore collections of materials with similar and/or different properties.	animals, types of plants/trees, magnets attracting objects, objects floating.
Talk about the differences between materials and changes they notice.	
Plant seeds and care for growing plants.	Substantive knowledge
Understand the key features of the life cycle of a plant and an animal.	Understand the effect of changing seasons in the natural world around them.
Begin to understand the need to respect and care for the natural environment and all living	Recognise some environments that are different to the one in which they live.
things.	Know some names of plants, trees and flowers from making observations.
	Identify different parts of their body.
	Know the need for healthy food and a varied diet.
	Know the effects of exercise on their bodies. Know that leaves falloff trees.
	Know that weather changes across the seasons.
	Thiow that weather thanges across the seasons.

Vocabulary:

Science, experiment, investigation, observe, test, why, senses, world, plants, leaf, stem, root, flower, seeds, animals, humans, materials, natural, change, grow, decay, rot, environment

Autumn: leaf, grass, tree, weather, rain, wind, falling, snow, autumn, twigs, logs, changing, branch, trunk; nose, mouth, ears, eyes; look, touch, feel, smell, taste.

Spring: cold, snow, hard, empty, ice, dark, bird, frosty, icy, icicles, Robin, Blackbird, Pigeon, bare.

Summer: