



Science Progression of Skills Netherton Infant and Nursery School

	Nursery	Reception	Year 1	Year 2
		<ul style="list-style-type: none"> • Exploring the natural world around them. • Similarities and differences in the natural world. • Contrasting environments • Changes in the natural world including seasons and changing states of matter • Understanding the importance of healthy food choices. 	<ul style="list-style-type: none"> • Plants and trees • Materials • Animals including humans • Seasonal changes 	<ul style="list-style-type: none"> • Use of everyday materials • Plants • Animals including humans • Living things and their habitats
To ask questions	Demonstrate curiosity about the world around them – asking questions about what things are, being inquisitive.	To ask appropriate questions and make reasoned comments about a topic. Continue to be inquisitive and find out more about the world around them.	Ask questions stimulated by their exploration of their world based on what they see and discover.	Asked questions based on observations and use secondary resources to find answers. Link previous knowledge to help them ask and answer relevant questions.
Observing and predicting	Observe and show interest in an adult talking to them about the world around them.	With support or prompting talk about what they think might happen based on their own experiences.	Respond to suggestions to connect what has been observed with possible further actions or observations.	Use their observations, ideas and prior knowledge to make reasoned predictions and use their understanding of what has been observed or their own experience to predict outcomes or further actions or observations.
Fair testing		Respond to prompts to be able to say what happened to living things, objects or events.	With support plan a fair test to explore a question or idea. With support and discussion plan and carry out a fair test changing a variable.	Suggest a practical way to find things out or collect data to answer a question or idea that they are investigating. To understand the need for fair testing and be able to explain why this important.

				Plan and carry out a fair test changing a variable.
Identifying and classifying	Name a range of objects	Name and group similar objects.	Group objects or animals and understand that something may belong to more than one group.	Group objects or animals, notice patterns and be able to discuss reasons why things are in certain groups.
Using observations to answer questions	Answer a simple question based on what they have observed.	Use their senses to answer questions.	Answer a wider range of questions (why, what, how) based on what they have observed. Observe objects living things and the world around them closely using their senses and simple equipment. Make measurements using non standard units of measure (e.g. collecting rainfall).	Use standard measures to record observations to help to answer a questions eg. Thermometer, ruler, stop watch. Use simple measurements and equipment to measure data.
Gathering and recording data	Talk about what you have found. Count the number of objects found.	Make simple pictograms to record findings.	Begin to record data formally using tally charts and Venn diagrams.	Record data in tally charts, Venn and Carroll diagrams and begin to discuss and draw conclusions. What does this show us?