

Skills Progression in Science at Foundation Stage

Science links	Explore collections of objects using their senses	Explore collections of objects, identifying similar and difference properties Develops an understanding of changes	Talks about similarities and differences between objects	Identifies changes they notice	Describes the changes they notice	Explore the natural world around them, making observations and drawing pictures of animals and plants Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter
	Making simple observations about animals and plants	Makes a basic representation of things they have observed e.g. I've drawn a rabbit.	Begins to correctly represent things that they have observed in their drawings	Begins to add more detail to their drawings	Name and label features of their observations, including drawings	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

Skills Progression in Science at Key Stage One

Working Scientifically

Year 1 and 2

- ✓ asking simple questions and recognising that they can be answered in different ways
- ✓ observing closely, using simple equipment
- ✓ performing simple tests
- ✓ identifying and classifying
- ✓ using their observations and ideas to suggest answers to questions
- ✓ gathering and recording data to help in answering questions

Skills Progression in Science at Lower Key Stage Two

Working Scientifically

Year 3 and 4

- ✓ asking relevant questions and using different types of scientific enquiries to answer them
- ✓ setting up simple practical enquiries, comparative and fair tests
- ✓ making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- ✓ gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- ✓ recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- ✓ reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- ✓ using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- ✓ identifying differences, similarities or changes related to simple scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings.

Skills Progression in Science at Upper Key Stage Two

Working Scientifically

Year 5 and 6

- ✓ planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- ✓ taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- ✓ recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- ✓ using test results to make predictions to set up further comparative and fair tests
- ✓ reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- ✓ identifying scientific evidence that has been used to support or refute ideas or arguments.