

Science Skills Progression - Disciplinary

	Communication and Language	Physical Development	Knowledge and Understanding of the World
EYFS	- Understand 'why' questions, like: "Why do you think the caterpillar got so fat?" - Use talk to work out problems and organise thinking and activities. Explain how things work and why they might happen. - Listen attentively and respond to what they hear with relevant questions. - Show an ability to follow instructions involving several ideas or actions. - Be confident to try new activities.	- Make healthy choices about food, drink, activity and tooth brushing. - Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. - Use a range of small tools. - Safely use and explore a variety of materials, tools and techniques.	- 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 they have read in class. - Understanding some important processes and changes in the natural world around them, including the seasons and changing states of matter.

	Skill Progression in Science at Key Stage 1
	Working Scientifically
Key Stage One Years 1 and 2	• Asking simple questions and recognising that they can be answered in different ways • Observing closely, using simple equipment • Performing simple tests • Using their observations and ideas to suggest answers to questions • Gathering and recording data to help in answering questions.

	Skill Progression in Science at Lower Key Stage Two
	Working Scientifically
Lower Key Stage Two Years 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.

	Skill Progression in Science at Upper Key Stage Two
	Working Scientifically
Upper Key Stage Two Years 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.