

WORKING SCIENTIFICALLY PROGRESSION OF SKILLS

stage skills	EYFS	KS1	LKS2	UKS2
PLAN	- Comments and asks questions about aspects of their familiar world, such as the place they live or the natural world - Choose the resources they need for their chosen activity	- Asks simple questions - Recognises that questions can be answered in different ways	- Asks relevant questions - Uses different types of scientific enquiries to answer them - Set up simple, practical enquiries, comparative and fair tests	Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
DO	- Know about similarities and differences in relation to places, objects, materials and living things - Make observations of animals and plants - Explore a variety of materials, tools, techniques, experimenting with colour, design, texture, form and function. - Select and use technology for particular purposes	- Observe closely, using simple equipment - Perform simple tests - Identify and Classify	- Make systematic and careful observations and, where appropriate, take accurate measurements using standard units - Use a range of equipment, including thermometers and data loggers	- Take measurements, using a range of scientific equipment, with increasing accuracy and precision - Taking repeat readings when appropriate
RECORD	Represent their own ideas thoughts and feelings through design and technology, art, music, dance, role play and stories	Gather and record data to help in answering questions	- Gather, record, classify and present data in a variety of ways to help in answering questions - Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
REVIEW	- Talk about the features of their own immediate environment and how environments might vary from one another - Explain why some things occur and talk about changes	Use their observations and ideas to suggest answers to questions	- Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions - Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions - Identify differences, similarities or changes related to simple scientific ideas and processes - Use straightforward scientific evidence to answer questions or to support their findings	- Use test results to make predictions to set up further comparative and fair tests - Report and present 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 - Identify scientific evidence that has been used to support or refute idea

Science enquiry types:

- Pattern seeking
- Observations over time
- Identifying, classifying and grouping
- Comparative and fair testing
- Research using secondary sources