

Science Curriculum Progression – INTENT



Year Group	EYFS	Year 1	Year 2
Mastering Scientific Enquiry & Scientific Vocabulary Observing	General sensory observations of animals and plants. Simple descriptions of the world around them.	Identify, classify and describe a variety of plants, animals and materials. Begin to make more descriptive observations.	Refined observations made through use of equipment (microscopes, magnifying glasses etc.). Describe observations using scientific language.
Researching	Looking at objects and pictures and discussing what they can see.	Use texts and using a variety of sources to research (internet, library, databases)	Using research to inform discussion and decision making.
Questioning	Asks questions about aspects of their familiar world.	Ask questions about their world and the world around them (what I can see, smell, taste, touch etc.)	Begin to ask questions with relevance to a topic. Increasingly asking about unknown phenomena.
Planning	Generating a variety of ideas for testing (not always realistic/appropriate)	Identify an appropriate approach to answer a set question. Recognise different ways to answer a question.	Beginning to refine ideas – fair test - only changing one factor. Recognise different ways to answer a question.
Predicting	Simple guess - what might happen?	Make a simple prediction based on experiment. Begin to think about what is already known.	Confidently using known occurrences when making a prediction (hypothesis). Explain reasons for prediction.
Measuring	Measure by direct comparison. Non-standard units of measurement. Simple comparative vocabulary – bigger, smaller.	Use standard units of measurement. Use simple equipment to measure length, time, capacity, weight).	Select most appropriate measurement and equipment. Use a variety of standard units of measurement. Use scientific vocabulary to aid measurement.
Reporting	Talking about objects and events. Simple recording – pictures/images.	Using precise scientific vocabulary to describe what has happened Complete pre-prepared tables and graphs. Simple labels for diagrams.	Create own charts and tables. Clearly labelled diagrams using scientific vocabulary.
Interpreting	Noticing 'which worked best' – simple comparative statements.	Consider what results show – why did X happen? Answer initial question using results.	Explain outcomes and how they were achieved. Relate results to initial question using scientific vocabulary. Identify patterns in data and explain.
Evaluating	Answer initial question simply.	Say how their investigation worked – what worked well, what didn't? Notice anything that affected results i.e. changes in temperature etc.	Suggest how to improve experiment. Identify if it was effective and link to scientific knowledge. What have we learnt from investigation?