Year 2 Working scientifically

Prior and future learning

Prior Knowledge…	What's next?
• Ask simple questions with prompting that can be tested, e.g. about plants growing in their habitat. • Offer ways of gathering evidence to answer a question, e.g. by deciding on the best material to use for a particular application. • Examine objects to note key features, e.g. observe growth of plants they have planted. • With support, conduct simple tests, e.g. comparing the properties of different materials. • With prompting, identify what might usefully be recorded, e.g. drawing structures of plants or recording changing day length. • Identify key findings from an enquiry, e.g. noting how plants have changed over time. • Collect data, e.g. comparing and contrasting familiar plants. • Suggest answers to enquiry questions using data, e.g. describe how to group plants.	• With support, develop relevant, testable questions. • Plan enquiry, such as comparative or fair test, e.g. comparing the effect of different factors on plant growth. • Set up a comparative test. • Use various equipment, as instructed. • Use standard measurements when taking measurements. • With prompting, draw and label diagrams. • With prompting, use tables to record evidence. • With prompting, gather and display evidence in various ways. • With prompting, write a conclusion based on evidence. • Indicate findings from an enquiry that could be reported. • With prompting, recognise patterns that relate to scientific ideas, e.g. investigating the behaviour of magnets. • With support, use evidence to produce a simple conclusion. • Suggest how an investigation could be extended, e.g. suggesting creative uses for different magnets.

Track your learning

Skill	How I will show what I've learned	☹	😐	☺
Plan	I can ask simple questions that can be tested, e.g. about how organisms depend on each other.			
	I can suggest different ways to answer a question			
Do	I can examine objects carefully e.g. observe growth of plants I have planted.			
	I can conduct simple tests, e.g. comparing the properties of different materials			
Record	I can, with assistance, draw and label diagrams.			
Report	I can identify and group key findings from an investigation.			
Review	I can collect data.			
	I can answer enquiry questions using data.			

Key knowledge I need to understand (different types of enquiry)

Vocabulary	
Classify	**To arrange things in categories according to shared characteristics or properties.**
Observe	**To watch something carefully.**
Equipment	**The items necessary for a particular science experiment.**
Identify	**To establish what something is.**
Interpret results	**To understand what your results mean.**
Group	**Put things together that are similar in some way.**
Sort	**Put things in groups.**
Compare	**To draw an analogy between one thing and (another) for the purposes of explanation or clarification.**
Contrast	**To show how something is different in a science experiment.**
Biology	**The study of living organisms.**
Chemistry	**The study of chemicals and substances and what they're made up of.**
Physics	**The study of properties of matter and energy.**
Record	**To write down something that can be referred to in an investigation.**