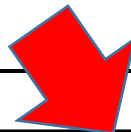


Year 4 Science Knowledge Organiser - Working Scientifically

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.
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Use the Glossary to help you:

Word	Definition
Classifying	An investigative approach that involves sorting objects or events into groups or categories.
Comparative	An investigative approach that requires you to compare different cases and situations.
Conclusion	This sums up what has been found out during an investigation.
Enquiry	The process of investigation that improves knowledge, resolves doubt or solves a problem.
Evidence	A collection of facts of information that suggests whether something is true or false.
Fair Test	A method of testing which makes sure that the data collected can be compared fairly.
Predictions	Making a statement of what you think is going to happen.
Systematic	Using a system or an ordered method.

To help with these working scientifically statements we have made them into I can statements that should help you!

- I can research using relevant questions and scientific enquiry.
- I can design and carry out a comparative and fair test.
- I can work systematically and make careful observations.
- I can measure accurately.
- I can classify and present data.
- I can record information using a range of methods including drawings, labelled diagrams, keys, bar charts and tables.
- I can use equipment, including a thermometer and data logger.
- I can gather data.
- I can make predictions and conclusions.
- I can explain similarities and differences and talk about changes.
- I can gather evidence.
- I can make improvements.
- I can construct an experiment and interpret results.
- I can make oral and written explanations.