

## Year 5 Science Knowledge Organiser - Working Scientifically

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| 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. | Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables and 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 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. |
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Use the Glossary to help you:

| Word                 | Definition   |
|----------------------|--|
| Causal Relationships | A causal relationship exists when one variable in a data set has a direct influence on another variable. |
| 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 or 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.   |
| Variable             | Any one of the elements of a test which could be changed.  |

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

- I can plan in a scientific way.
- I can display and present evidence and findings.
- I can work with precision and accuracy.
- I can repeat an investigation to check readings.
- I can record data using scientific diagrams, labels, classification, keys, tables, scatter graphs, bar and line graphs.
- I can make predictions.
- I can carry out further comparative and fair tests.
- I can report and present data while making reference to conclusions, causal relationships, explanations and degree of trust.
- I can present using oral and written forms.
- I can use evidence to support/refute ideas or arguments.
- I can identify, classify and describe.
- I can identify patterns.
- I can work in a systematic way.
- I can use quantitative measurements.