# **Writing your Report**

NAME

## TITLE and DATE

## **Introduction:** A discussion of the topic and relevant information (include references within the introduction).

## **Hypothesis:** A short statement, making a prediction about how one variable will affect another variable.

## **Variables:**

#### Independent or manipulated variable

#### Dependent or responding variable

#### The controlled variables or variables that you kept the same.

## **Materials:** List of materials written so that anyone else could repeat your experiment exactly.

## **Method:** Listed in numbered steps so that anyone else could repeat your experiment exactly.

## **Diagram:** Use a ruler and pencil. (If applicable)

**Results**: A table of data including all trials and an average measurement.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Independent  Variable (units) | Dependant Variable (units) | | | |
| Trial 1 | Trial 2 | Trial 3 | Average |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Graph:** What type of graph will you draw and why?

###### Plot the average results not all the trials.

## TITLE – relates the two variables

Dependent variable

(units)

Independent variable (units)

**Results:** Written description of the results. Describe any patterns that are present but do not explain why these results occurred (save that for the discussion)

**Discussion**: Use science ideas to explain why the results occurred.

If the hypothesis was not supported or the results were unusual, try to explain why.

Was the experiment reliable? (consistent results) Were there enough trials to get a reliable result? Were there any outliers?

Was the experiment valid? (did it test what it was meant to?) Were there any variables which were not controlled well and if so how would you improve this in a repeat experiment?

**References:** A list of references written correctly according to the library guide