

# Prompts

# CEJW Bñ3

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## 1. Aim & Prediction

- Write the aim
- Correctly identify two variables
- Link the aim with the variables
- Make a prediction, which is also linked to the specific variables.

## 2. Experimental Design

- Identify one risk, how it's controlled and whether any more control is needed.
- Identify the control variables, the ones that never get changed.
- Identify the independent variable
- Give details of the control experiment
- State how reliable the results are, specifically mention repeat readings, mean values, and how I can improve this.

## 2. Experimental Design

### The Results

- A results table, all set out with the correct headings and things
- Name the appropriate units in the headings, specifically use seconds for time, NOT minutes
- Repeat the measurements, if they are numerically close, no need for a third repeat
- Record everything to an appropriate degree of accuracy, calculate the mean as appropriate.
- Plot the results on a graph, there are 7 marks for this for everything from axis labels to sufficient use of the grid. Range bars!

## 3. Analysis

- State simply what the results show, making reference to the variables
- Comment on what the range bars show, they shouldn't cross, what does it mean about the reliability of the data
- Comment on the measuring and equipment, and how this affects the accuracy.
- Suggest two changes to the method which would improve this.

## 4. Further Work

- Plan a whole new experiment
- To make it easiest, do exactly the same changing a which is the independent variable.
- List the variables, their units, and the values of the independent variable
- Make a prediction related to these variables
- Note the control variables used.
- List a basic method, and what this will enable the study of.

## 3. Analysis

- With reference to biological theory, reach a conclusion about the data
- Make a correct and valid conclusion, and relate this to the aim
- Comment, based on biological theory about accurate the data is.
- The teacher will assess general performance practical work