**NAME:**



**St. Joseph’s College**

**S1 / S2**

 **Science Investigation**

**TOPIC:**

*May wish a page of background / introductory information*

**Investigation Report – Guidance Sheet**

Your **plan** must include:

* **an aim** — which is a clear statement of what you are trying to do in this experiment
* the **dependant** and **independent** **variables** and any to be kept **constant**
* what you will be **measuring/observing**
* a **list of equipment**/materials you will use
* a **labelled diagram** of the experimental arrangement, if appropriate
* a **description** of how you will carry out your experiment (including **safety** where appropriate)

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**Checkpoint**: Ask your teacher to check your plan before you start the practical work.

* You should carry out your experiment safely and repeat your measurements if appropriate.
* **Record your observations/measurements** in an appropriate way including any averages you have calculated.

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**Checkpoint**: Ask your teacher to check your results.

**Present** your findings/results in an appropriate way.

* This may be a **table, line graph, bar chart**, or other appropriate format.
* If used, graphs should be plotted on squared graph paper. If graphing software is used, graphs should be of an appropriate size, with major and minor gridlines shown. Data points should be discernable without being excessively large and be joined using a curve or line of best fit.
* Use SI units and standard abbreviations, where appropriate.
* State your **conclusion(s)** - which should address the following:

-are the results as you expected?
-include reference to the aim
* **Evaluate** your experimental procedures Your evaluation should include at least one of the following:

-effectiveness of procedure
-control of variables
-limitations of equipment
-possible sources of uncertainty
- or could be one possible improvement for the experiment, with justification(s).