Title of investigation

**Name:** (Sarah Student)

**Partners :** (Students)

**Date**(s)**:** (when the investigation was done, also when the report was submitted)

**1. AIMS**

**1.1.** Identify a focused problem or research question. You may repeat the general aim given by the teacher, but try to express it in your own words, and be more specific.

**1.2.** Formulate a hypothesis or prediction, relate it to the problem or research question, and explain what it means.

**1.3.** Select the relevant variables (usually physical quantities. These are things which affect the result). Some are controlled (kept the same), others varied intentionally.

**2. METHODS AND TOOLS**

**2.1.** What apparatus or other (e.g. software) tools did you select, and why is it appropriate in this investigation?

**2.2.** How did you control the variables which need to be controlled (make sure they do not vary and thereby distort the results)?

**2.3.** What did you do to collect sufficient relevant data?

**3. DATA COLLECTION**

**3.1.** What raw data, qualitative or quantitative (including units), was recorded (Often a table of measurement values is suitable here)? Include and/or discuss the uncertainties where relevant.

**3.2.** Present the raw data clearly so that it is easy to interpret (e.g. graph or average of values in 3.1).

**4. DATA PROCESSING AND PRESENTATION**

**4.1.** Process the data (calculations, graphical analyses, other)

**4.2.** Present the processed data and where relevant, take errors and uncertainties into account.

**5. CONCLUSION AND EVALUATION**

**5.1.** What conclusion(s) can you draw from the results and reasonable interpretations of them? Compare the result to literature data (if relevant) and any prediction or hypothesis you made.

**5.2.** Evaluate the procedure(s) (the methods to do things) and results (the collected data or things calculated based on them).

**5.3.** Identify weaknesses in the procedure(s) and suggest improvements. The improvements should not be too simplistic, nor unrealistic.

*APPENDICES may be added if necessary. Number them and refer to them in the report text with this number.*