

Prac Title:

Name:	Group partners:
Teacher:	

Aim: (what is going to be investigated in this experiment)

Introduction:

(Briefly describe the experiment that is going to be done)

Explain (step by step) the science theory:

- i) Describe the {chemistry, biology, physics, or geology} process involved in the experiment from start to end.
- ii) State & explain science concepts that's going on during this process (apply concepts learned in class)

	Figure 1: _____

Figure 2: _____	

(Explain how the results will be measured / recorded / determined)

	Figure 3: _____

Variables:

- 1: what will be deliberately changed,
- 2: what responding effect or result will be measured
- 3: what will be kept the same to ensure that all tests are fair and reliable)

(1) Independent	(2) Dependent	(3) Controlled

Hypothesis: (The predicted relationship between the independent and dependent variables - 'If then because.....')

Example:

If the (independent variable) is increased, the (dependent variable) will (increase or decrease), because (reasoning and/or science theory)

Risk Assessment:

1. What actions could cause harm,
2. What are the dangers of those actions
3. How they will be managed such that are minimised or so that they will not happen

(1) Activity	(2) Risks	(3) Management

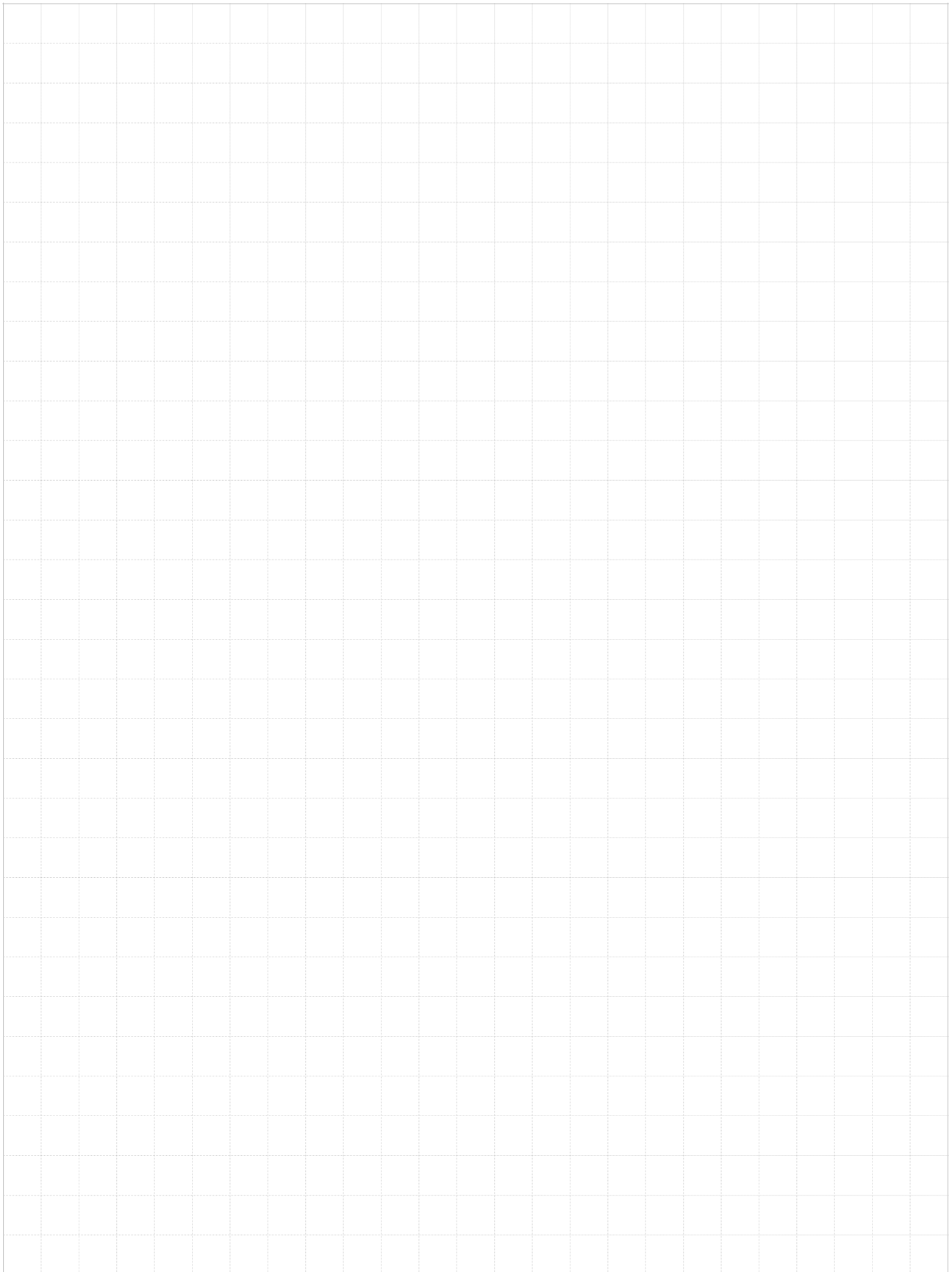
Materials: (a list of what was used - mention all that apply)

- materials
- equipment
- chemicals
- quantities
- concentrations
- size/dimensions
- brands

Method: (In 3rd person & past tense, describe in detail how the experiment **was** done)

Apparatus Diagram: (draw a diagram of the assembled equipment as it was used during the experiment. Label all important information)

Graph ____ : _____
(e.g. Graph 1: Force required vs Angle)



Discussion:

- i) What do the results show? (Refer to **numbers** to justify)
- ii) What trend does the graph show - are the results increasing, or decreasing?
(Refer to **numbers** to justify)

(Explain why the results turned out that way (i.e. why did they go up?) using science theory. If possible, compare the results with other studies or literature.)

(Evaluate the method that was used, and suggest 2-3 improvements that could be made to the *method's design* to make it easier, more accurate, and fool-proof)

(How could these findings be used/applied in the real world? e.g. families, factories)

Conclusion: (1. restate the aim, 2. hypothesis, 3. summarise the results - with numbers, then 4. conclude whether the results supported/negated the hypothesis)

Bibliography: (List alphabetically, using the following format)

Web sources Author, Year, 'Title', Publisher, viewed date, <web address>.
Book sources Author, Year, 'Title', Publisher, City.

Author	A person (Boman, S or McCarthy, EJ, William, DP & Pascale, GQ), or the organisation/company name (NASA, National Geographic, etc)
Year	Year it was made
Title	Title of the article or book
Publisher	Name of the whole website, or name of the book publisher.
City	City where the book was published
Viewed date	Date accessed, e.g. viewed 25th August 2016 - or - viewed 25/08/2016
Web address	The URL (http://www....)