Activity report

Your report should include the following sections:

Introduction

Context: what do we know about this topic already?

Rationale: why are we interested in the results of the experiment?

Question: what is this experiment attempting to demonstrate or quantify?

Hypothesis: what do you think will happen, and why?

Not more than ~200 words (1 long or 2 short paragraphs)

Full sentences

Methods

Materials: what did you use?

Methods: what did you do, in enough detail that a person could replicate it?

Safety: what precautions do you need to take so the experiment is not dangerous?

Ethical protections: how is this experiment conducted in a manner that is ethical for and respectful of the subjects?

Not more than ~150 words (1 medium paragraph)

May be written as a list or full sentences

Results

Drawings or photos, for visually oriented data, with labels

Tables or graphs, for quantified data, with titles, labels, and legends

Written description of results – for every figure, table, or graph, a description of its contents and meaning

Not more than ~150 words + labels for figures or graphs

Full sentences

Discussion

Question and hypothesis: what was the answer to your question? Was your hypothesis right? Why or why not?

Interpretation of results: what do your findings imply? What process might cause what you observed?

Challenges or limits: errors, limitations, restrictions in data collection

Further experiments: what would you do next?

Not more than ~250 words (3 short or 2 medium paragraphs)

Full sentences

References

If you used any references besides what we covered in class, list them here

APA format preferred

Parenthetical references or footnotes in text for use of references

Assignments graded out of 10