

SPH4U Formal Lab Marking Scheme

Name:

Lab:

Rubric Marking Scheme

4 - Always	/ Extremely well done	/ All elements present
3 - Usually	/ Well done	/ Most elements present
2 - Sometimes	/ Satisfactory	/ Significant number of elements missing
1 - Rarely	/ Poorly Done	/ Many elements missing
0 - Never	/ Missing	/ Most elements missing

Theory	Mark	Weight
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Theory is detailed, includes explanations of:

- all concepts explored in the lab
- how these concepts apply to the investigation.
- how the concepts were tested
- An explanation of any formula(s) used in the lab, define the meaning of each variable

Purpose

- Is clearly stated in a concise statement.

Apparatus

- A detailed list of all items used in the lab including quantity used
- Diagram of setup included

Procedure

- A detailed, accurate, and sequential numbered list of all the steps taken to properly perform the lab.
- Written in complete sentences in 3rd person impersonal and in past tense.

Observations

All data recorded in table format including

- A detailed descriptive heading outlining which section of the experiment the data originated
- Variable names including units in the column heading but **NOT** in the data itself

Calculations

- One full calculation for each unique type of calculation.
- Remaining results recorded in table format immediately below the example calculation

All calculations

- Include a detailed descriptive heading outlining which section of the experiment the calculation pertains to
 - Completed using the "Given, RTF, Formula, Solution" format
 - Include a "therefore statement"
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Graphs

- All graphs located in the observation section
- Completed in pencil except for labels in heading. Headings underlined in red
- Graph uses complete scale (no scale breaks permitted)
- All data points are circled
- Line of best fit
- If slope is used, points for slope are clearly marked with the "rise" and "run" components clearly labeled.

Conclusions

- Summary of obtained results
- Discussion on whether the findings supported the hypothesis
- Detailed list of possible sources of error
- A summary of possible improvements to the procedure that could improve the results
- What was learned from the experiment.

Questions

- Answers vary
- Question is included with the solution

Communication

Spelling and Grammar

- Lab is free of spelling and grammatical errors.

Written on the computer

- Lab is completely written on the computer, free of formatting errors
(Diagrams and Graphs exempted)

Organization

- Layout is well organized and easy to follow
- Lab includes detailed headings and descriptions
- Layout is logical and all elements of the lab appear in the proper sequence.

Detail and Formality

- Writing is descriptive and highly detailed
- Lab is written in 3rd person impersonal and in past tense.

INQUIRY: / =

COM: / =