

Lab Grading Guidelines

Date (-5 if missing) –place in top right hand corner

Title (-1 if missing)

Partners: (-1 if missing)

Purpose (objectives, hypothesis) (-1 if missing)

Materials (-1 if missing)

Procedure (-2 if missing)

Results (Total = 10)

Raw Data (2)

Data Charts, Graphs, Diagrams, Drawings (4~8)

(- 5 for incorrect or inaccurate labeling of data charts, graphs, diagrams, drawings)

(-2) for incorrect or inaccurate use of units)

Calculations or balancing equations (4~8)

(- 2 for absence of units where required)

(-2 for incorrect or inaccurate use of units)

(-1 for not writing or specifying mathematical equations)

Discussion (Total = 10)

- Summarize what you did, make this brief, 1 or 2 sentences (1)
- **Discuss your results in detail, make specific reference to data, 2 or 5 sentences. Every statement needs to be supported with evidence from the lab. (5)**
 - Respond to discussion or analysis questions if included as part of lab instructions
- Comment on whether or not you met the objectives/purpose of the activity or if the results support or refute the hypothesis. This step should actually develop the conclusion. (2)
- Describe sources of error (1)
- Suggest improvements or alternatives (1)

Conclusion (5)

A ONE sentence TESTABLE statement that combines purpose and results

Reflection (-5 if missing)

A short commentary on the lab activity, what you learned, what you liked or didn't like, etc.....

Note:

Title, Date, Purpose, Materials, Procedure, and Reflection are required for the **SETUP** of each lab. You will **LOSE** points as indicated above if these parts are **NOT** included.

Results, Discussion, and Conclusion reflect individual lab results and interpretation of these results. Points are **EARNED** for accurate, neat, and appropriate presentation of these components of a lab report.

Lab activities are done in groups and it is understood that raw data, data charts, diagrams, calculations, and even the conclusion may be the same or similar for group members. The Discussion **MUST** reflect individual student thought and interpretation of the data. Copying of another student's lab discussion is considered cheating! The consequences for copying of the discussion include no points for the activity and reporting to the dean.

TOTAL POINTS FOR LAB = 25