Formal Lab Report Rubric

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| Section | Excellent | Competent | Evolving | Needs Support |
| Objective/  Hypothesis | Name, Date, Lab Partner  Writes a statement of the purpose of the lab.  States a hypothesis that is based on sound reasoning  Title is relevant.  Hypothesis (prediction) is testable. | One of the  "excellent"  conditions is not  met | Two of the "excellent"  conditions are not met | Three of the  "excellent"  conditions are not  met |
| Materials and Procedure |  Materials listed with amounts   Step-by-step summary of how the experiment was performed with credit to original procedure   Note deviations from published procedure and any errors made   Needed safety equipment and precautions are mentioned | Materials listed and experiment summarized but no credit given, OR no safety information | No materials listed, a description or step by-step list of how the  experiment was  performed | Description  unclear, couldn't  be repeated |
| Qualitative/ Quantitative Data |  Any data tables are present  Labeled correctly  Data are clearly recorded, organized so it is easy for the reader to see trends.  Written description present | Data are clear  and labeled, but missing units | Data are unclear,  missing one form of data, calculated results are mixed with data | Data are  present, though  too disorganized or  poorly recorded to  make sense. |
| Calculations and Graphs | Lab report has needed graphs with correct labels, unit, and title  Lab reports must contain at least one sample calculation of each type you are required to do.  You should have the general formula used in the calculation.  Complete the formula used in the calculation with the correct numbers & units included.  Your answer should include the correct units and the correct number of significant figures.  If there are no sample calculations write NONE | Graph is present, but one of the "excellent"  conditions is not  met | Graph is present, but two of the "excellent"  conditions are not met | Graph is missing OR Three of the  "excellent"  conditions are not  met |
| Results |  Correctly labeled tables of results with proper sig digs and units.  Results clearly recorded and organized so it is easy for the reader to see trends.  Written description present | Results are clear  and labeled, trends  are not obvious | Results are unclear,  missing labels, trends  are not obvious at all | Results are  present, though  too disorganized or  poorly recorded to  make sense |
| Conclusion/  Extensions | Summarizes the essential data used to draw conclusions  Conclusions follow data (not wild guesses or leaps of logic),  Discusses applications of experiment ("real world" connections)  Hypothesis is restated and rejected or accepted based on the data.  Discussion of any errors that could have affected results | Analysis somewhat  lacking in insight,  enough data,  one “excellent condition” missing | Analysis lacking in  insight, not enough  data was gathered to  establish trends, OR  analysis does not  follow data | Analysis poor, not  enough data,  inaccurate analysis |
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