

Earth Science Project- Lab Report Rubric 2010-2011

Name: _____

Day/Period: _____

Date: _____

Disclaimer : Lab report will not be accepted for any experiment that was changed without teacher approval or that does not meet project parameters of a controlled experiment. Any lab report that is not typed using Times New Roman Font, 12 point sized and double spaced with one inch margins will not be accepted. The lab report will be handed back to the student to be resubmitted as late and ten points will be deducted per day until it is returned.

Component	5 Exceeds Standard	4 Meets Standard	3	2 Does Not Meet Standard	1	Score
Abstract 10	Completely summarizes the essence of the lab report. What problem was addressed? What procedure did you use? What major results were found (both qualitative and quantitative)? What conclusions were made? Must be very concise, typically 5-6 sentences.	One component missing or incompletely summarized.		Two or more components missing or incompletely summarized.		
Introduction 15	Introduces the science behind the experiment. Uses citations from scientific sources to explain concepts/ background of the problem addressed (purpose). Should be concise and flow logically to end with hypothesis.	One component missing or not complete.		Two or more components missing or not complete.		
Materials 5	Lists all materials and equipment used, specifies sizes and quantities of all pieces in metric units.	Lists most materials and equipment used. Most pieces are described with respect to size and quantity in metric units.		Lists some materials and equipment used. Some pieces are described with respect to size and quantity in metric units.		
Procedure 10	Step by step sequence of procedure written with enough detail so that the lab can be repeated. Minimum of 10 trials and 3 test groups present. Clear and accurate picture/diagram of setup. Discusses safety precautions.	Minimum of 10 trials and 3 test groups present. Lacking some detail in steps and/or lacking some detail in picture/diagram of setup and/or safety precautions.		Lacking great detail in steps and/or fewer than 10 trials and 3 test groups. Lacking great detail in picture/diagram of setup and/or safety precautions.		
Results A. Qualitative Data 5	All observations reported in organized, clear and concise phrases/sentences.	Most observations reported and/or not reported in organized, clear and concise phrases/sentences.		Few observations reported and/or not reported in organized, clear and concise phrases/sentences.		
B. Quantitative Data 1. Table 10	All measurements applicable to the procedure are clearly recorded and organized into data table using metric measurements. Minimum of 10 trials and 3 test groups present.	Most measurements applicable to the procedure are clearly recorded and organized into data table using metric measurements. Minimum of 10 trials and 3 test groups present.		Fewer than 10 trials and/or test groups. Some measurements applicable to the procedure are clearly recorded and organized into data table using metric measurements.		
2. Graph 10	Titled and labeled graph is present that provides all data in a clear, accurate, and appropriate fashion.	One criteria is incomplete, inaccurate or missing.		Two or more criteria are incomplete, inaccurate or missing.		
Discussion 20	-Restates the hypothesis -States whether the hypothesis is supported or refuted. -A complete and correct analysis of actual data clearly and accurately explains the trend shown in the graph. -Author uses supporting details from cited research to explain the science behind the experimental results. -Errors of experimentation are provided, explaining how they may have affected the data/results.	Two criteria are incomplete, inaccurate or missing.		Three or more criteria are incomplete, inaccurate or missing.		
Literature cited 10	Minimum of 3 sources (textbooks, scientific journals, etc.) and 7 citations. Not to include dictionary and/or encyclopedia.	Missing one source and/or 2 citations.		Missing two or more sources or citations.		
Mechanics & Usage 5	No obvious errors in punctuation, spelling, sentence structure and/or word usage.	Few obvious errors in punctuation, spelling, sentence structure and/or word usage.		Many errors in punctuation, spelling, sentence structure and/or word usage.		