



Earth Science Rubric for Common Laboratory Assessments

Composition

Always use the following sequence:

<u> </u>	I. Title: Present and posed as a question if appropriate? (eg.: How does the size of a crystal vary with the depth of its formation?)	<u> </u> / 5pts
<u> </u>	II. Heading: Student Name and Date of Lab Activity	<u> </u> / 5 pts
<u> </u>	III. Purpose:	<u> </u> / 5 pts
	IV. Background Information:	
<u> </u>	The student demonstrated research on the variables in the lab in a narrative format?	<u> </u> /20pts
<u> </u>	Resources were cited within the text	<u> </u> / 5 pts
	V. Hypothesis:	<u> </u> /10pts
<u> </u>	The student used an “If...(Indep Variable),then...(Dep. Variable)” format as appropriate? (eg: If a rock cools deeper within the crust, then the crystal will be larger.)	
<u> </u>	The hypothesis answered the question posed in the title?	<u> </u> /10 pts
<u> </u>	VI. Materials: Are present and in a list format	<u> </u> / 5 pts
<u> </u>	VII. Procedure: Is present and in a numbered list	<u> </u> /10pts
<u> </u>	VIII. Results: points assigned in following sections of the rubric	Subtotal: <u> </u>
<u> </u>	IX. Discussion: points assigned in following sections of the rubric	
<u> </u>	X. Works Cited: points assigned in following sections of the rubric	

VIII. Results

Data Table Format

<u> </u>	Table is titled and numbered	<u> </u> / 5pts
<u> </u>	Labels are attached to each column	<u> </u> / 5pts
<u> </u>	Units are attached to each column	<u> </u> / 5pts
<u> </u>	Overall neatness of the data table	<u> </u> / 5pts

Calculations (immediately follows the Data Description paragraph)

<u> </u>	The student demonstrated the use of appropriate equations?	<u> </u> /15 pts
<u> </u>	An acceptable mathematical answer was obtained?	<u> </u> /15 pts
<u> </u>	All numbers have the correct units attached?	<u> </u> /15 pts

Data Description

<u> </u>	Appropriate data were fully and accurately recorded	<u> </u> /10pts
<u> </u>	Observations were objectively described in paragraph form and/or were the data reported in words immediately following the data table?	<u> </u> /20pts

Graphing

<u> </u>	Graph title and number is present and formatted properly i.e.(“Effect of the Independent Variable on the Dependent Variable”)	<u> </u> / 5 pts
<u> </u>	Independent on the X axis, Dependent Variable on the Y axis	<u> </u> / 5 pts
<u> </u>	Used the appropriate variables/data for the graph	<u> </u> /20 pts *
<u> </u>	Axes are labeled and units correctly identified?	<u> </u> / 5 pts
<u> </u>	Data is accurately plotted on the graph paper?	<u> </u> / 5 pts
<u> </u>	The scale is ruled accurately for the data	<u> </u> / 5 pts
<u> </u>	The appropriate type of graph was used	<u> </u> / 5 pts
<u> </u>	Overall neatness of the graph	<u> </u> / 5 pts

Subtotal from previous page: _____/225

IX. Discussion Section

Discussion

_____ Restated the hypothesis / 5 pts
_____ Stated whether the hypothesis was supported or refuted / 5 pts
_____ Used the correct data to properly support or refute hypothesis /40 pts *

Errors and Recommendations

_____ Identified the errors and their sources /10 pts
_____ How might the perceived errors have affected the results? /10 pts
_____ How might these errors have been eliminated / 5 pts
_____ What experimentation may be the next logical step or
how might this be applied to real life? / 5 pts

Concluding Paragraph

_____ Correctly summarized the results of this lab activity in several sentences. /20 pts *

_____ **X. Works Cited** Work cited in MLA format / 5 pts

_____ **Proper Sequence** (Title, Heading, Purpose, Background, etc) /25 pts *

Mechanics of Technical Writing

_____ Used 3rd Person, Past Tense writing style / 10pts
(eg: **The student received** the following results from the experiment...)
Grammar, Spelling and Sentence Structure Conventions / 10pts

Total Points: _____/375

Days Late Penalty (-10%/day) **Percent Score:** _____%

Sapphire Score: _____

Student name: _____

* These are the sections of the lab report being focused upon during freshman year.

All lab reports are to be typed or legibly written in black or blue ink.

All lab reports must be completed satisfactorily and submitted. Failure to do so will result in a grade of Incomplete. Unresolved incompletes will result **in a failing grade for the semester.**