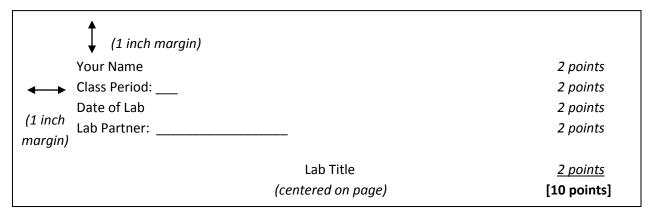
Chemistry Lab Report Rubric - 100 points

Title Page – typed or neatly printed on a full sheet of paper in the following format:



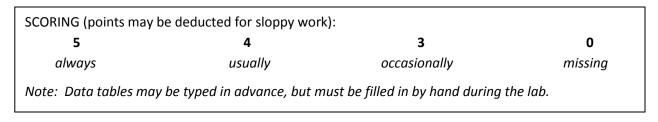
Page 1 [15 points]

- **Purpose** Identify the problem which we are seeking to solve by conducting the experiment. This can be written in the form of a statement or question.
- **Hypothesis** State your proposed solution to the problem (what you believe will be the outcome of the experiment) using an 'If..., then..., because...' format.
- **Justification for Procedure** After reading the procedure carefully, explain why it is valid in terms of the scientific method.

SCORING (points may be deducted for missing headings, incomplete sentences, or sloppy work): typed or neatly written in complete sentences 1 inch margins Subject headings are underlined or in boldface type Subject content will be scored according to the following scale: 5 3 well thought-out; mostly correct; incorrect or missing complete; correct mostly complete; not justified; or reasoning is justified; significant effort is evident lack of effort evidence of deep thought evident

Page 2 [15 points]: Data and/or Observations Table; Results Table

- Appropriate data and/or observations are recorded; results are documented in a table or list.
- Tables or lists are correctly labeled (headings; units of measure)
- Decimal places are handled appropriately based on measuring devices and significant digit rules.



Page 3 [15 points]: Calculations

- Each calculation is clearly identified and appropriate formulas are written before showing work.
- Work is shown for each calculation and significant digit rules are appropriately followed.
- Accuracy Answers are correct.

SCORING (points may be deducted for sloppy work)

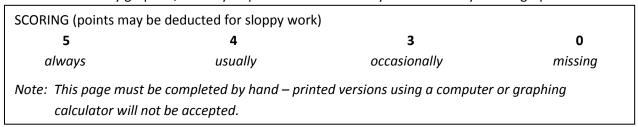
5 4 3 0

always usually occasionally missing

Note: Other than headings (see bullet one) this page may NOT be typed!

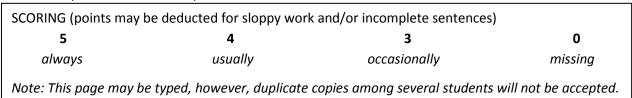
Page 4 [15 points]: Graphing

- includes appropriate title and labeling (of axes) this includes headings and units of measure
- graph type and scales (of axes) are appropriate for data
- data is correctly graphed, and any required work is correctly shown directly on the graph



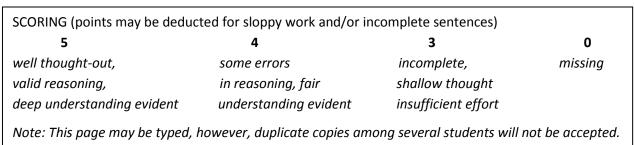
Page 5 [15 points]: Post-Lab Questions

- Each question is rewritten, or the answer begins by rephrasing the question as a statement.
- Independent thinking and depth of thought are evident.
- Accuracy Answers are complete and correct.



Page 6 [15 points]: Conclusion and Error Analysis

- The first paragraph is a summary of student learning and should include a discussion of core concepts and vocabulary. It should provide clear evidence that the student understands the chemistry involved in the experiment. This is NOT a summary of the procedure.
- A second paragraph describes how the student's results relate to the core concept(s); whether or not the data supports the student's hypothesis; and what conclusion(s) he/she has reached based on the results.
- A final paragraph describes how procedural error may have produced unreliable data and invalid results.



Chemistry Lab Report Rubric

Name:	
Lab:	

Page	Requirement	Score						Comments, Additional Points or Deductions
Title	Name		2	1	L	0		
	Class Period		2	1	 L	0		
	Date		2	1	L	0		
	Lab Partner		2	1	 L	0		
	Title		2	1	 L	0		
One	Purpose	5		4	3		0	
	Hypothesis	5		4	3		0	
	Justification for Procedure	5		4	3		0	
Two: Data	Appropriate Data / Results	5		4	3		0	
& Results Tables	Labeling (Headings / Units)	5		4	3		0	
	Decimal Places / Sig Figs	5		4	3		0	
Three: Calculations	Identification / Formulas	5		4	3		0	
	Work Shown / Sig Fig Rules	5		4	3		0	
	Accuracy	5		4	3		0	
Four: Graphing	Labeling – Title and Axes	5		4	3		0	
	Graph Type and Scales	5		4	3		0	
	Graph Work	5		4	3		0	
Five: Questions	Question Identification	5		4	3		0	
	Depth of Thought	5		4	3		0	
	Accuracy	5		4	3		0	
Six: Conclusion and Error Analysis	Summary of Learning	5		4	3		0	
	Conclusion	5		4	3		0	
	Error Analysis	5		4	3		0	
Point Subtotals:								
Total Points:		Per	cent	::				Final Grade: