Name: _____ Date: _____

Period: _____

Chemistry 30
Lab Report Outline

Structure

For most labs, you will be given:

1. Purpose
2. List of materials
3. Procedure
4. Pre-lab questions, which must be completed before the lab can be conducted
    a. Sample calculations
    b. Safety questions

   The pre-lab will be stamped and collected, then returned to you with your marked lab.

For some labs, you may be given a purpose and a list of available materials and will be responsible for designing your own procedure. In these cases, the procedure must be completed along with the other pre-lab questions.

Report Format

Reports should be typed (with the exception of any diagrams or calculations) or neatly written. If typing, please use a readable, size-11 font.

Your report needs to be in three sections:

1. Results
    a. Data table(s), neatly written and labeled, including units and proper significant digits for measurements
    b. Calculations, graphs or data representations
2. Discussion (1-2 pages, typed)

   Not all of these options will always be applicable. Use your best judgment when completing your lab.
    a. Determine accuracy or precision of results using percent error, percent yield or percent difference (depending on which is applicable)
    b. Analyze your data to determine trends, make connections with what you have already learned and come to a conclusion, apply the concepts to "real life"
    c. Discuss multiple sources of error
    d. Discuss improvements, recommendations or next steps
3. Conclusion (2-3 sentences)
    a. Restate your results
    b. Summarize the significance of the results with respect to the purpose of the lab

Evaluation

Pre-Lab Report

Criteria	Excellent /5	Very Good /4	Mediocre /3	Poor /2	Missing /0
Calculations are done correctly, using correct units and reasonable significant digits.					
Strong understanding of safety procedures for handling lab equipment and chemicals substances.					

Lab Report

Criteria	Excellent /5	Very Good /4	Mediocre /3	Poor /2	Missing /0
Data is recorded in a table or chart, clearly and accurately, with correct units and reasonable significant digits.					
Calculations are done correctly, using correct units and reasonable significant digits.					
Calculation of percent error/yield/difference is done correctly, using correct units and reasonable significant digits.					
Data is analyzed to come to a conclusion that connects with previously-learned chemistry concepts or that can be applied to "real life".					
Data analysis is clear, thorough and accurate and is expressed using grade-level language.					
Several sources of error are given and are reasonable, relevant and explained in appropriate detail.					
Recommendations are given for reasonable improvements to the lab and/or further testing that could be done.					
Conclusion succinctly restates purpose, results and significance of findings.					