

How to Write a Chemistry Lab Report

- Heading** (two lines) include the following information:
 - Name, Section, Partners Name (when appropriate), Date of Lab, Title
- Introduction** - paragraph
 - Include any information that introduces the concepts explored in this lab. This section should "set the scene" for the rest of the lab report. (The outcome of the lab is almost postponed here, you should rather "lead" into "there".)
- Purpose** - sentence
 - Complete the sentence "The purpose of this experiment is to..."
- Materials** - list
 - List all of the materials used in the lab investigation.
- Procedure** - followed by one paragraph
 - Reference to the third person (a past tense)
 - Any time you use the Labware (Burette, etc.) you must include the manufacturer's name
 - A procedure should be written so that anyone can recreate the experiment, even if they have not done it before.
- Observations** Lab or paragraph
 - The things that you see, smell, feel and listen to!
 - Include any colors, graphs, charts and "What I saw" (with a picture)
 - Graphs should be drawn/hand-drawn on the paper and should be on graph paper (or draw one)
 - Complete and precisely list each item: mass, color, temperature.
- Questions** (If the questions listed, these points will be addressed in the conclusion)
 - Answer the questions at the end of the lab as FULL ANSWERS!
 - Do not just rewrite the questions.
- Conclusions** Paragraph is an outcome
 - This section is not only what you do in a laboratory
 - Provide a brief summary of the lab (in a sentence)
 - "The reaction of this lab actually was..."
 - "These concepts were explored by..."
 - Remember the results "What evidence supports the results? What evidence refutes the results?"
 - "These results are valid because..."
 - "These results are invalid because..."
 - "The results obtained actually suggest..."
 - Refer to the lab's results
 - "The results of the lab demonstrate..."
 - "A conclusion for this lab is..."
 - "This is similar to..."
 - Discuss possible errors (only those that are correct - that's a requirement)
 - "The lab could be improved by..."
 - "One more variable, the lab partners didn't know what they were doing..."
 - Discuss how things you learned that you did not know before
 - Include questions you were still left with
 - "While this experiment addressed..., it is still confusing how..."

6

Answer _____

Lab Activity _____

Investigation: *Phenylhydrazine* - compared to each partner's at least one reaction.
The synthesis of this lab activity was _____

How many days were required for _____

How many days were required for each reaction _____

A reaction was not observed _____

Available sources of reagents _____

This lab would be improved by _____

Remembering what I learned is _____

A question I still have is _____

**Students v
Worksheet**

Students write in worksheet format

Students write high quality conclusions
using How to Write a Chemistry Lab
Report Sentence Starters

Applied High School Chemistry Lab Manual

Ida M. Lynn



Applied High School Chemistry Lab Manual:

Proceedings of the High School Conference of ... ,1928 **Annual Report of the Public Schools** Harrisburg (Pa.). Board of School Directors,1915 **Proceedings of the High School Conference of November 1910-November 1931** ,1929 **Exploring General Chemistry in the Laboratory** Colleen F. Craig,Kim N. Gunnerson,2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science *The United States Catalog* ,1928 *The United States Catalog* Ida M. Lynn,1928 *The Cumulative Book Index* ,1913 *The United States Catalog* Mary Burnham,Carol Hurd,1928

Teaching Lab Science Courses Online Linda Jeschofnig,Peter Jeschofnig,2011-02-02 Teaching Lab Science Courses Online is a practical resource for educators developing and teaching fully online lab science courses First it provides guidance for using learning management systems and other web 2 0 technologies such as video presentations discussion boards Google apps Skype video web conferencing and social media networking Moreover it offers advice for giving students the hands on wet laboratory experience they need to learn science effectively including the implications of implementing various lab experiences such as computer simulations kitchen labs and commercially assembled at home lab kits Finally the book reveals how to get administrative and faculty buy in for teaching science online and shows how to negotiate internal politics and assess the budget implications of online science instruction **Journal of Education** ,1892

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