

## Lab Report Formatting Guidelines

Good scientists are organized and present their information in an organized way. This is the format you will use this semester when you complete formal lab reports. Not every lab or activity will require this write up. You may need to have the Purpose, Hypothesis, Materials, Variables and Procedure written before you start some labs! If you come unprepared, you will lose credit on the lab and will not be able to participate until it is done.

Name  
Date  
Hour

### Title of Lab

(Create your own if one is not given to you.)

**Purpose:** What are you trying to find out? Make sure that it is testable (able to be analyzed/observed/measured). This is always included. Purposes are often written as a question. [Complete sentence(s) required.]

**Hypothesis:** This is your best guess of what the results of your experiment will be. It should be based on information you already have. You should include a sentence or two describing WHY you think that will happen. Some labs do not include a hypothesis. [Complete sentence(s) required.]

**Materials:** List everything that one would need to duplicate your experiment. Remember to include specific amounts, if needed.

### Variables:

**Independent Variable:** This is the part of the experiment that is changing. What are you testing?

**Dependent Variable:** This is the part of the experiment that you are measuring. What might be changing based on the experiment?

**Constants:** List all things and conditions you kept constant during the experiment.

**Procedure:** Describe (using words and possibly pictures/diagrams) the initial set up of your experiment. Then, explain step by step how you conducted your whole research. Be specific and complete using your own words. Be sure to write enough and include enough detail that anyone would be able to follow your experiment simply by following your written procedure. The procedure is usually the longest part of your report. [Complete sentences required. Yes, sentences can be formatted in a step by step manner.]

**Observations and Data:** This section should include your raw data (observations, measurements and calculations) that you gathered throughout the experiment. Include charts, graphs, tables, and diagrams so that the reader understands what you did. All of these should be clearly labeled! You should also describe any problems with your lab procedure or unusual circumstances that occurred that could influence future attempts with the experiment. [Portions of this section will likely be in complete sentences.]

**Conclusion:** Your conclusion should analyze and summarize your results and consider future possibilities. You should directly refer back to your hypothesis (was your hypothesis supported or not by the experiment?). You should clarify the pattern you found. What did you learn? What problems would you fix if you tested the same question in the future? Finally, what other questions does this experiment leave you wondering about? [Complete sentences required.]

**Make sure you have completed each section before you turn in your report!**

# Lab Report Guidelines

**R Pring**



## Lab Report Guidelines:

*How to Write a Lab Report* Jerome N. Borowick, 2000 This guide outlines an effective methodology for writing the experimental laboratory report showing how skills that emphasize correct grammar and appropriate style must be adapted to writing reports with a purpose reports that emphasize structure and content to persuade the readers It first covers basic principles then explores each section of a report step by step with sample report sections and critiques The Laboratory Report Writing Process Principles of Clear Lab Report Writing Rules of Practice for Lab Report Writing Graphics The Title Page and Table of Contents The Beginning of the Report The Body of the Report The Ending of the Report A Sample Student Lab Report For anyone who must write lab reports as part of their professional responsibilities *America's Lab Report* National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished **E-biology Ii Tm (science and Technology)' 2003 Ed. ,** E-biology Ii (science and Technology)' 2003 Ed. , *The Student Lab Report Handbook* John D. Mays, 2014-06-01 Second Edition A Guide to Writing in the Sciences Andrea A. Gilpin, Patricia Patchet-Golubev, 2000-01-01 Clear and concise this guide describes the basic elements of scientific writing from lab reports to research essays to articles as well as the grammar and punctuation fundamental to all writing 128 pp *Applied Analog Electronics: A First Course In Electronics* Kevin Karplus, 2023-06-06 This textbook is for a first course on electronics It assumes no prior electronics experience but does assume that students have had calculus 1 single variable differential calculus and high school physics A key idea of the course is that students need a lot of design experience and hands on work rather than a lot of theory The course is centered around the labs which are a mix of design labs and measurement modeling labs This unique volume takes students from knowing no electronics to being able to design

and build amplifier and filter circuits for connecting sensors to microcontrollers within 20 weeks Students design a digital thermometer a blood pressure meter an optical pulse monitor an EKG an audio preamplifier and a class D power amplifier They also learn how to measure and characterize components including impedance spectroscopy of a loudspeaker and of electrochemical electrodes Related Link s **How to Write Anything: A Guide and Reference** John J.

Ruszkiewicz,2012-02-01 Because there is more than one writing process How to Write Anything supports students wherever they are in their writing process Designed to be clear and simple the Guide lays out focused advice for writing common academic and real world genres while the Reference covers the range of writing skills that students needs as they work across genres and disciplines Genre based readings including narratives reports arguments evaluations proposals and rhetorical causal and literary analyses are sure to engage students and inspire ideas The result is everything you need to teach composition in a flexible highly visual guide reference and reader This new edition gives students more support for academic writing more help choosing and working with genres and more emphasis on multimodal composing How to Write Lab Reports for Science Fairs and Classroom Experiments Kimberley Nash,1999-04-01 How to write Lab Reports for Science Fairs and Classroom Experiments An easy step by step workbook Publisher s Synopsis This easy to use curriculum teaches inquisitive students how to write science lab reports in a step by step format The introductory sections include What is a lab report What are the elements of a lab report What is a scientific method What experiments science project to do Additional hints provided from a science fair grand prize winner The workbook is spiral bound to lay flat for ease of student use and is divided into two levels Level One and Level Two This workbook is frequently purchased by home school families to compliment their existing science curricula textbooks These curriculum often ask the student to write lab reports but do not provide detailed instructions as to proper method and format Thus our Lab Reports are an indispensable item for the home school science student Specifically within Level One the student learns the steps of the scientific method Student learns to determine a title for an experiment formulate an hypothesis record information about an experiment record observations and data make tables and graphs and analyze determine results This is all recorded in a log The student is then taught how to transform and transfer the data from the log to a final lab report Level Two expands this foundation through learning to refine and master the log preparation process This level also spends ample time teaching the student to write the content of their report better They will actually produce secondary college level quality lab report s These will contain greater subject depth analytical clarity and length This 100 page workbook is intended for all students performing experiments between grades 3 12 Features A How to use this workbook introduction Detailed instructions at each step of the workbook format process Both levels each contain Three 3 log report templates Three 3 lab report templates Teacher report and grading instructions Standardized grading charts recommendations Unit of measure conversion charts Whether a student is just beginning to adventure into the arena of science fairs or performing classroom experiments this workbook will guide him her

into the careful preparation of lab reports from the elementary grades through secondary college level It s a great way to not only learn needed and valuable skills for today but prepare for the future that may lie ahead      **Earth Science Success** Catherine Oates-Bockenstedt,Michael Oates,2008 This unique collection of astronomy geology meteorology and physical oceanography lessons promotes deeper understanding of science concepts through a hands on approach that expands understanding and knowledge It s also ideal for university level methodology courses in science education      **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994      **Naturalist's Guide to the Americas** Nature Conservancy (U.S.),1926      **Pocket Guide to Technical Writing** William S. Pfeiffer,2001 This book is designed to give quick access to the essentials of workplace writing It is a guide to speed organization visual appeal and correctness in 16 different kinds of documents as well as guidelines for special topics like graphics speeches and e mails For speed this book gives you a 9 step process to write quickly and well For organization this book gives you a three part structure to organize all documents For visual appeal this book has tips for using white space lists and headings For correctness an alphabetized handbook on style and grammar is included Publisher      *A Student Guide to Engineering Report Writing* John Fiske Brown,1985      **Writing Undergraduate Lab Reports** Christopher S. Lobban,María Schefter,2017-07-27 A practical guide to writing impactful lab reports for science undergraduates through the use of model outlines and annotated publications      Guide to Report Writing for Consulting Arborists Dorothy Abeyta,1995      **U.S. Government Research & Development Reports** ,1970      **Faxon ... Librarians' Guide to Serials** ,1985      *Guide to the Current Periodicals and Serials of the United States and Canada* ,1907      **A Short Illustrated Guide to the Anophelines of Tropical and South Africa** Alwen Myfanwy Evans,1927

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