

Scientific Paper Outline

Voice:

- All in present tense, except for methods sentences, which are in past tense.
- Do NOT use 1st person. The experiment should always be the subject of your sentences, NOT yourselves! (For example, do NOT say, "We burned peanuts." Instead say, "Peanuts were burned.")

Format:

- Required Length: 7 - 10 pages
- 12 point font - Arial or Times New Roman only.
- Line Spacing: 1.5 (go to Format and Paragraph to change line spacing)
- Abstract will be centered on top of the page.
- Double Column format for the rest of the paper (Introduction to Conclusion) Go to Format, Columns, and choose 2 columns
- Results Tables, Graphs, and Pictures do not need to be in columns.
- Always must be word-processed.
- Number your pages - Number should appear along bottom center of page
- Cover page: Include your name, date, class, teacher, and period somewhere on your cover.

Order and Subject of Paragraphs:

I. Abstract: (Include this title in your paper and center it!) ~ 1 paragraph

- An abstract is a one paragraph (6-8 sentences) summary of your entire project. You must use the IMRaC format for writing an abstract. In other words, you use one to two sentences to describe each of the following main points about the experiment (not about the classroom procedures) in your one-paragraph abstract:

I= Introduction (purpose)

M= Methods (simple overview of procedure)

R= Results (numerical data)

and

C= Conclusion (interpretation of data)

II. Introduction: (Include this title in your paper)~2-3 pages

- Introduce the lab and purpose of the lab. Explain the significance or importance of the experiment.
- Use additional research to provide some background information about the scientific concepts involved in the lab. This research must be cited in-text and a works cited page provided at the end of the paper.

Sample Science Research Paper Outline

Zhe Xu



Sample Science Research Paper Outline:

Writing Science Through Critical Thinking Marilyn F. Moriarty, 1997 Written and extensively class tested with NSF NIH support this timely and useful text addresses a crucial need which is acknowledged in most universities and colleges It is the need for students to learn to write in the context of their field of study in this case science Although numerous how to writing books have been published few if any address the central pedagogical issues underlying the process of learning to think and write scientifically The direct connection between this writing skill and that of critical thinking is developed with engaging style by the author an English professor Moriarty s book is an invaluable guide for both undergraduate and graduate science students In the process of learning the specific requirements of organization demanded by scientific writing students will develop strategies for thinking through their scientific research well before they sit down to write This instructive text will be useful to students who need to satisfy a science writing proficiency requirement in the context of a science course a course in technical writing advanced composition or writing for the profession Scientific and Technical Aerospace Reports ,1993 Fundamentals of NeuroIS René Riedl, Pierre-Majorique Léger, 2015-11-30 This authored volume presents the fundamentals of NeuroIS which is an emerging subfield within the Information Systems discipline that makes use of neuroscience and neurophysiological tools and knowledge to better understand the development use and impact of information and communication technologies This book is an initial guide to this new research domain The target audience primarily comprises PhD students and researchers but the book may also be beneficial for graduate students and practitioners *Teaching the Scientific Literature Review* Randell K. Schmidt, Maureen M. Smyth, Virginia K. Kowalski, 2014-04-21 An essential resource for teachers and librarians who work with students in the later high school years through college and graduate school levels this book explains and simplifies the scholarly task of researching and writing a scientific literature review This thoroughly updated and revised follow up to the popular text *Lessons for a Scientific Literature Review Guiding the Inquiry* is designed for pre collegiate and early collegiate educators in the sciences high school and college librarians curriculum directors and common core supervisors school district leaders and principals The book provides step by step guidance on instructing students how to perform the necessary research and successfully integrate newly acquired information into a high quality final product In addition you ll find an emphasis on using quantitative science research reports as well as white papers discussing more theoretical science topics a student timeline for assignments and a handout specifically for students working on writing a scientific literature review More than 20 workshops lessons that are aligned to standards dealing with digital literacy information handling research and textual interpretations and representation are provided The book allows you to easily adapt it for use of investigation of subjects in the humanities and for the teaching of an extended essay Research Methods for Cyber Security Thomas W. Edgar, David O. Manz, 2017-04-19 *Research Methods for Cyber Security* teaches scientific methods for generating impactful knowledge

validating theories and adding critical rigor to the cyber security field This book shows how to develop a research plan beginning by starting research with a question then offers an introduction to the broad range of useful research methods for cyber security research observational mathematical experimental and applied Each research method chapter concludes with recommended outlines and suggested templates for submission to peer reviewed venues This book concludes with information on cross cutting issues within cyber security research Cyber security research contends with numerous unique issues such as an extremely fast environment evolution adversarial behavior and the merging of natural and social science phenomena Research Methods for Cyber Security addresses these concerns and much more by teaching readers not only the process of science in the context of cyber security research but providing assistance in execution of research as well Presents research methods from a cyber security science perspective Catalyzes the rigorous research necessary to propel the cyber security field forward Provides a guided method selection for the type of research being conducted presented in the context of real world usage

The Analytical Writer Adrienne Robins,1995-09 In *The Analytical Writing* Adrienne Robins explains college writing as a process of discovery as a series of strategies that any college student can learn to apply All strategies explained in this text are based on sound theories of teaching writing and on the patterns of successful writers Writing and thinking should not be separated and presenting only the steps without the accompanying explanation of how they influence thinking would be of little more help than having no method at all By using this text the students will see as they plan draft and revise how their writing helps clarify their thoughts This clearly written and engaging textbook is illustrated by real examples of student writing and appropriate cartoons The second edition was revised and updated based on the large scale evaluation of the first edition completed by professors and students The new edition reflects four essential values recognizing the diversity of writing processes the necessity of peer and teacher interaction with the writer on drafts the integration of writing and reading and the appropriate uses of technology Specific features of this second edition include new writing samples electronic citation formats updated library use chapter with technological guidance concise paragraph chapter revised introduction and conclusion chapter rhetorical as well as grammatical explanations for punctuation usage new cartoons exercises drawn from students papers a condensed chapter on research papers and an expanded and clearer chapter on special assignments and other writing tasks A Collegiate Press book *Writing Research Papers* James D. Lester (Sr.),1990 *U.S.D.A. Forest Service Research Paper NC. ,1968* **Electronic Journal of Business Research Methods ,**

Social Sciences Research Gail M. Staines,Katherine Johnson,Mark Bonacci,2008-02-04 Social Sciences Research designed by Gail M Staines Mark Bonacci and Katherine Johnson is a comprehensive resource manual for both students and instructors to help students carry out library research in the social sciences In this second edition the authors have revised and updated the text and have included more instruction on searches of information using electronic sources such as the Internet as well as new formatting guidelines that have been promulgated in the past five years *Resources in Education*

,2001-04 *A Southern Region Conference on Technology Transfer and Extension* Sarah F. Ashton,William Gary Hubbard,Harold M. Rauscher,2009 *Research in Education* ,1974 Teaching Writing With Rubrics Laura A. Flynn,Ellen M. Flynn,2004-03-29 What a gift I used your book from the first day Using your guidelines I am now developing my own units and rubrics Rebecca Kennerly Student Resident Teacher ProgramUniversity of New Mexico Take the guesswork out of writing instruction and assessment The step by step instructions scheduling guidelines lesson plans rubric assessments and reproducible forms in this guide are the result of years of research planning and fine tuning in the classroom Inspiring student creativity while addressing standards and meeting the needs of every student has never been so easy Special features include Step by step instructions on how to set up a classroom writing program Eleven comprehensive classroom tested lesson plans Methods for adapting rubrics for high school students gifted students English Language Learners and students with learning disabilities Strategies for evaluating every step of the writing process from pre writing to final draft How to incorporate Six Trait Writing Discover the excellent writing your students can produce when provided with a rubric and challenged to do their best Once you have used the strategies and materials in this guide you may wonder how you ever got along without them *Research Methods for Political Science* David E. McNabb,2020-12-30 The third edition of *Research Methods for Political Science* retains its effective approach to helping students learn what to research why to research and how to research The text integrates both quantitative and qualitative approaches to research in one volume and covers such important topics as research design specifying research problems designing questionnaires and writing questions designing and carrying out qualitative research and analyzing both quantitative and qualitative research data Heavily illustrated classroom tested exceptionally readable and engaging the text presents statistical methods in a conversational tone to help students surmount math phobia Updates to this new edition include Research topics chapters have been upgraded and expanded Two mixed methods design chapters have been added A new chapter on hermeneutic analysis designs and research with large data sets The chapter on multivariate statistics has been expanded with an expanded discussion on logistic regression Tools on how to prepare and present research findings are now featured in the appendix allowing instructors more flexibility when teaching their courses *Research Methods for Political Science* will give students the confidence and knowledge they need to understand the methods and basics skills for data collection presentation and analysis **Large Space Structures & Systems in the Space Station Era** ,1991 **Writing Papers in the Biological Sciences** Vicky McMillan,2012 Designed primarily for undergraduates this self help manual offers straightforward solutions to common problems and an overview of the diversity of writing tasks faced by professional biologists **Introduction to Research Methods** Bora Pajo,2017-07-28 *Introduction to Research Methods A Hands On Approach* makes learning research methods easy for students by giving them activities they can experience and do on their own With clear simple and even humorous prose this text offers students a straightforward introduction to an exciting new

world of social science and behavioral research Rather than making research seem intimidating author Bora Pajo shows students how research can be an easy ongoing conversation on topics that matter in their lives Each chapter includes real research examples that illustrate specific topics that the chapter covers guides that help students explore actual research challenges in more depth and ethical considerations relating to specific chapter topics

3 Reasons Why You ll Want to Read This Book

- 1 Conducting research can be fun when you see it in terms that relate to your everyday life
- 2 Knowing how to do research will open many doors for you in your career It will open your mind to new ideas on what you might pursue in the future e g becoming an entrepreneur opening your own nongovernmental organization or running your own health clinic and give you an extra analytic skill to brag about in your job interviews
- 3 Understanding research will make you an educated consumer You will be able to evaluate the information before you and determine what to accept and what to reject Truth be told understanding research will save you money in the short and long term

From Chapter 1 of Introduction to Research Methods A Hands On Approach

Introduction to Research in the Health Sciences - E-Book Stephen Polgar,Shane A. Thomas,2019-08-31 Now in its 7th edition this textbook is a must have for any health professional student It provides a comprehensive overview of health research in a concise and easy to read format using examples directly related to the health sciences It helps students understand health research models and how research goes on to inform and improve evidence based clinical practice For practitioners it provides guidance on published research in journals providing an essential tool to keep their practice evidence based Uses simple language and demystifies research jargon Covers both quantitative and qualitative research methodology taking a very practical approach Provides an extensive glossary for better understanding of the language of research Fully updated online interactive self assessment tests including MCQs true or false questions and short answer questions

The Essentials of Political Analysis Philip H Pollock,Philip H. Pollock III,Barry C. Edwards,2025-01-28 The Essentials of Political Analysis empowers students to conduct political research and interpret statistical results fostering important skills such as data analysis critical thinking and effective communication In this Seventh Edition bestselling authors Philip H Pollock III and Barry C Edwards not only make political analysis more accessible but also demonstrate its relevance and applicability

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