



Writing a Lab Report (Chemistry)

The process of writing a lab report can be daunting, especially when you're enrolled in multiple labs per week. Never fear, though! This resource will allow the task to come as a second nature! In the words of Julie Andrews, a very good place to start would be the beginning.

If you happen to be a STEM major, chances are you will have to become familiar with writing a lab report. **Lab reports are a way of documenting and interpreting the data you collect throughout your experiment. Be aware that biology and chemistry lab reports will have slight differences, depending on your instructor's preferences.** Your lab report should begin with the experiment number, title of study, name(s) of the authors, course number, and lab section. It should be centered at the top of the first page.

Title + Three Sections:

Experiment 09
 Rubber Stopper Analysis
 Lewis Student
 Partner: Jane Doe
 Lab Section 00-011-0

Introduction
 Measurement is a key tool in science. It allows for the determination of differences between parameters such as mass, volume, temperature and pressure. These differences can be significant and reveal important trends. During the course of this experiment several parameters associated with five rubber stoppers will be measured. These parameters include: mass, volume, top diameter, bottom diameter and height. The data will be presented in the form of two graphs. The first graph will show the relationship between volume and mass and the second graph will show the relationship between the stopper dimensions (top diameter, bottom diameter and height) and mass. The straight line equation, $y = mx + b$, will be shown for each trend.

Procedure
 Five stoppers, labeled 00, 2, 5, 7 and 9, were obtained. The mass of each stopper was measured using an analytical balance. A ruler was used to measure the top diameter, bottom diameter and height of each stopper. Lastly, the volume of each stopper was obtained using several different graduated cylinders and water displacement.

Results and Discussion
 The results obtained in this experiment are summarized in the table below:

Stopper	Mass (g)	Volume (mL)	Top Diameter (cm)	Bottom Diameter (cm)	Height (cm)
00	4.475	1.25	1.25	1.25	1.25
2	4.765	1.25	1.25	1.25	1.25
5	4.824	1.25	1.25	1.25	1.25
7	26.125	26.25	5.00	5.00	5.00
9	26.175	26.25	5.00	5.00	5.00

This data is presented graphically in the figures below.

Fig. 1. Stoppers: Volume vs. Mass

Title

Introduction

Procedure

Results/Discussion

How To Write A Good Chemistry Lab Report

Christopher S. Lobban, MarLa Schefter



How To Write A Good Chemistry Lab Report:

Course Success in the Undergraduate General Chemistry Lab Thomas Elert, 2019-11-15 Stetig hohe Studienabbruchquoten in den MINT Fchern an deutschen Hochschulen welche auch aus geringem Kurserfolg in einf hrenden Laborpraktika resultieren k nnten und die wachsende Kritik an der Qualit t und Wirksamkeit ebendieser machen eine eingehende Betrachtung von Laborpraktika notwendig Diese Studie untersuchte die Lernziele des Laborpraktikums Allgemeine Chemie f r Lehramtsstudierende im ersten Semester sowie Faktoren f r den Kurserfolg um daraus Aussagen ber den Stellenwert von Laborpraktika in der universit ren Bildung insbesondere f r langfristigen Studienerfolg abzuleiten Dazu wurde ein theoretisches Modell zu Grunde gelegt welches das Vorwissen der Studierenden und die Lernzielpassung zwischen Studierenden und Lehrenden als zwei entscheidende Faktoren f r Kurserfolg ber cksichtigt Constantly high student dropout rates in STEM subjects at German universities which could be the result of low course success in introductory laboratory courses among other things and increasing criticism about their quality and effectiveness necessitate these laboratory courses to be examined thoroughly This study investigated the learning goals of the General Chemistry laboratory course for first year students in teacher training and factors for course success in order to make statements about the significance of laboratory courses for university education particularly for long term study success For this purpose a theoretical model that assumes the students prior knowledge and learning goal alignment between students and their lab instructors to be two defining factors for lab course success was used as a framework

How to Write Anything John J. Ruszkiewicz, 2012-01-05 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

Laboratory Manual for Principles of General Chemistry Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures

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

[Successful Lab Reports](#) Christopher S. Lobban, MarLa Schefter, 1992-02-28 Shows science students how to write a clear and to the point laboratory report

How to Write Anything with 2009 MLA and 2010 APA Updates John J. Ruszkiewicz, 2010-07-15 Click here to find out about the 2009 MLA Updates and the 2010 APA Updates Designed to be clear and simple How to Write Anything combines the thoughtfulness of rhetorics with the efficiency of brief handbooks Through memorable visuals and honest talk John Ruszkiewicz shows students how to write in any situation wherever they are in their writing process With everything you need to teach composition the Guide lays out focused advice for writing common genres while the Reference covers the range of writing and research skills that students need as they work across genres and disciplines An intuitive visual cross referencing system and a modular chapter organization that s simple to follow make it even easier for students to work back and forth between chapters and stay focused on their own writing

Teaching Undergraduate Science Linda C. Hodges, 2023-07-03 This book is written for all science or engineering faculty who have ever found themselves baffled and frustrated by their undergraduate students lack of engagement and learning The author an experienced scientist faculty member and educational consultant addresses these issues with the knowledge of faculty interests constraints and day to day concerns in mind Drawing from the research on learning she offers faculty new ways to think about the struggles their science students face She then provides a range of evidence based teaching strategies that can make the time faculty spend in the classroom more productive and satisfying Linda Hodges reviews the various learning problems endemic to teaching science explains why they are so common and persistent and presents a digest of key ideas and strategies to address them based on the research she has undertaken into the literature on the cognitive sciences and education Recognizing that faculty have different views about teaching different comfort levels with alternative teaching approaches and are often pressed for time Linda Hodges takes these constraints into account by first offering a framework for thinking purposefully about course design and teaching choices and then providing a range of strategies to address very specific teaching barriers whether it be students motivation engagement in class ability to problem solve their reading comprehension or laboratory research or writing skills Except for the first and last chapters the other chapters in this book stand on their own i e can be read in any order and address a specific challenge students have in learning and doing science Each chapter summarizes the research explaining why students struggle and concludes by offering several teaching options categorized by how easy or difficult they are to implement Some for example can work in a large lecture class without a great expenditure of time others may require more preparation and a more adventurous approach to teaching Each strategy is accompanied by a table categorizing its likely impact how much time it will take in

class or out and how difficult it will be to implement Like scientific research teaching works best when faculty start with a goal in mind plan an approach building on the literature use well tested methodologies and analyze results for future trials Linda Hodges message is that with such intentional thought and a bit of effort faculty can succeed in helping many more students gain exciting new skills and abilities whether those students are potential scientists or physicians or entrepreneurs Her book serves as a mini compendium of current research as well as a protocol manual a readily accessible guide to the literature the best practices known to date and a framework for thinking about teaching

The Chicago Guide to College Science Teaching Terry McGlynn, 2020-11-09 Higher education is a strange beast Teaching is a critical skill for scientists in academia yet one that is barely touched upon in their professional training despite being a substantial part of their career This book is a practical guide for anyone teaching STEM related academic disciplines at the college level from graduate students teaching lab sections and newly appointed faculty to well seasoned professors in want of fresh ideas Terry McGlynn s straightforward no nonsense approach avoids off putting pedagogical jargon and enables instructors to become true ambassadors for science For years McGlynn has been addressing the need for practical and accessible advice for college science teachers through his popular blog Small Pond Science Now he has gathered this advice as an easy read one that can be ingested and put to use on short deadline Readers will learn about topics ranging from creating a syllabus and developing grading rubrics to mastering online teaching and ensuring safety during lab and fieldwork The book also offers advice on cultivating productive relationships with students teaching assistants and colleagues

Cambridge Academic Content Dictionary Reference Book with CD-ROM Cambridge University Press, 2009 The Cambridge Academic Content Dictionary defines the vocabulary students need to succeed in high school and beyond Entries cover more than 2 000 content area vocabulary items as well as general academic vocabulary and full coverage of everyday words and phrases The CD ROM lets students search for vocabulary by subject area includes audio of all entry words offers word family and frequency information and has a thesaurus and instant lookup feature The CD ROM is compatible with Windows XP Vista and with Mac OSX 10 4 32 bit only

Violet Ink and the Loneliest Girl Cithara Susan Patra, She gives advice to everyone But what if the one who needs it most is her biggest secret admirer Sonia Roy prefers to stay invisible Between dodging her mother s comments and writing for the school paper she s learned that laying low is safer Then she s thrust into the role of advice columnist something she s certain she s not ready for She reluctantly becomes Violet Ink the mysterious voice who listens to everyone s problems even if she can t solve her own Aster Martin has it all as cheerleader and honor student she has beauty brains and popularity But no one sees the girl behind the perfect smile trapped between absent parents and endless expectations Completely lost she turns to Violet Ink for help writing in as The Loneliest Girl What begins as one letter becomes a lifeline Violet Ink and The Loneliest Girl begin to fall for each other but Violet Ink is also making a few enemies not everyone is happy with the advice she s doling out and they re ready to take action against her If Sonia reveals her identity to win Aster s heart she ll be

humiliated before her peers Will the girl giving advice find the answer she s been searching for all along or is she better off staying hidden

Implementing Inquiry-based Learning in a Diverse Classroom Sandra Puddu,2017 This thesis an explorative case study provides insights into the implementation of inquiry based learning in an authentic classroom For one year a teacher was accompanied while implementing inquiry based learning in a highly diverse class In doing so the observations focused on strategies for both scaffolding and dealing with diversity Additionally data reflecting students views of scientific inquiry were gathered The results show a successive implementation of inquiry based learning through four phases supported by various scaffolding strategies The views of scientific inquiry are discussed on both the class and the individual level Finally all these findings are brought together to paint a vivid picture of the investigated class Die vorliegende Arbeit eine explorative Fallstudie bietet einen Einblick in ein authentisches Klassenzimmer in dem Forschendes Lernen eingeführt wurde Dazu wurde eine Lehrperson ein Jahr lang begleitet Die Beforschung fokussierte auf Lernbegleitungsstrategien den Umgang mit Diversität sowie den Sichtweisen der Schülerinnen und Schüler bei Naturwissenschaften Die Resultate zeigen eine schrittweise Einführung von Forschendem Lernen in vier Phasen begleitet von vielfältigen Lernbegleitungsstrategien Schließlich werden alle Ergebnisse zusammengeführt um ein lebendiges Bild des untersuchten Unterrichts und der Personen zu zeichnen

Assessing Grammar James E. Purpura,2004-11-18 Assessing Grammar provides essential reading for teachers who need to evaluate their students grammar

Designing Effective Distance and Blended Learning Environments in K-12 Driscoll III, Thomas F.,2021-11-12 It has quickly become apparent in the past year that online learning is not only an asset but it is critical to the continued education of youth during times of crisis However districts and schools across the nation are in need of guidance and practical research backed approaches to distance and hybrid learning The current COVID 19 crisis has demonstrated that effective learning in K 12 is possible but many districts struggled and continue to struggle in achieving that reality There is also the growing consensus that even if things return to normal distance and blended learning strategies should continue to be employed in many ways across the K 12 environment *Designing Effective Distance and Blended Learning Environments in K 12* provides key insights into the ways that school districts and educators from across the world have effectively designed and implemented distance and blended learning approaches to enable and enhance student learning The diverse collection of authors from various demographics and roles in school systems will benefit readers across a wide spectrum of school community stakeholders There will also be an emphasis on how research and theory is put into practice along with an honest discussion of what strategies and actions were successful as well as those that were less so This book is essential for professionals and researchers working in the field of K 12 education particularly superintendents curriculum developers professional learning designers school principals instructional technology specialists and teachers as well as administrators researchers academicians and students interested in the effective practices being used in blended learning approaches

Chemistry and Physics of Fullerenes and Carbon

Nanomaterials Electrochemical Society. Fullerenes Group, Electrochemical Society. Meeting, 2000 *Report of the Division of Chemistry* Canada. Department of Agriculture. Division of Chemistry, 1924 *Teaching at Its Best* Linda B.

Nilson, 2016-06-22 The classic teaching toolbox updated with new research and ideas Teaching at Its Best is the bestselling research based toolbox for college instructors at any level in any higher education setting Packed with practical guidance proven techniques and expert perspectives this book helps instructors improve student learning both face to face and online This new fourth edition features five new chapters on building critical thinking into course design creating a welcoming classroom environment helping students learn how to learn giving and receiving feedback and teaching in multiple modes along with the latest research and new questions to facilitate faculty discussion Topics include new coverage of the flipped classroom cutting edge technologies self regulated learning the mental processes involved in learning and memory and more in the accessible format and easy to understand style that has made this book a much valued resource among college faculty Good instructors are always looking for ways to improve student learning With college classrooms becoming increasingly varied by age ability and experience the need for fresh ideas and techniques has never been greater This book provides a wealth of research backed practices that apply across the board Teach students practical real world problem solving Interpret student ratings accurately Boost motivation and help students understand how they learn Explore alternative techniques formats activities and exercises Given the ever growing body of research on student learning faculty now have many more choices of effective teaching strategies than they used to have along with many more ways to achieve excellence in the classroom Teaching at Its Best is an invaluable toolbox for refreshing your approach and providing the exceptional education your students deserve

Handbook of Research on Writing Instruction Practices for Equitable and Effective Teaching Hodges, Tracey S., 2022-05-27 Writing is a critical component for teaching children about advocacy and empowering student voice as well as an essential tool for learning in many disciplines Yet writing instruction in schools often focuses on traditional methods such as the composition of five paragraph essays or the adherence to proper grammatical conventions While these are two components of writing instruction and preparation in education they only provide a small glimpse into the depth and breadth of writing As such writing instruction is increasingly complex and requires multiple perspectives and levels of skill among teachers The Handbook of Research on Writing Instruction Practices for Equitable and Effective Teaching serves as a comprehensive reference of issues related to writing instruction and leading research about perspectives methods and approaches for equitable and effective writing instruction It includes practices beyond K 12 including best writing practices at the college level as well as the development of future teachers Providing unique coverage on culturally relevant writing socio and racio linguistic justice and urgent writing pedagogies this major reference work is an indispensable resource for administrators and educators of both K 12 and higher education pre service teachers teacher educators libraries government officials researchers and academicians

Cross Reality (XR) and Immersive Learning

Environments (ILEs) in Education Minjuan Wang, Jungwoo Ryoo, Kurt Winkelmann, 2023-11-14 This timely volume highlights the novel ways in which cutting edge virtual and augmented reality VR and AR technology is being used in STEM education Today there are many exciting advances occurring in Immersive Learning Environments ILEs and innovative applications in STEM education Recent breakthroughs in technologies such VR AR and Mixed Reality MR as well as Cross Reality XR that leverages VR AR and MR are finally making it feasible for educators in STEM to adopt ILEs in their classrooms in a scalable manner Edited by experienced XR researchers in STEM education Wang Ryoo and Winkelmann the book focuses on the use of ILEs for creating experiences that excite inspire and engage learners in STEM disciplines Chapters include research studies and practical applications addressing the challenges and opportunities associated with adopting technologies This book covers the entire spectrum of immersive platform types and ILEs such as desktop mobile wearable and room based It helps advance research and practice in the novel adoption of ILE technologies into STEM education from technical theoretical conceptual empirical and or methodological perspectives Cross Reality XR and Immersive Learning Environments ILE in Education will be a key resource for academics researchers and advanced students of education STEM education instructional design and technology educational research educational technology research methods information and communications technology and curriculum and instruction This book was originally published as a special issue of Interactive Learning Environments

Resources in Education ,1998 *Accurate Results in the Clinical Laboratory* Amitava Dasgupta, Jorge L. Sepulveda, 2019-07-20 *Accurate Results in the Clinical Laboratory* A Guide to Error Detection and Correction Second Edition provides a comprehensive review of the factors leading to errors in all areas of clinical laboratory testing This trusted guide addresses interference issues in all laboratory tests including patient epigenetics processes of specimen collection enzymes and biomarkers Clinicians and laboratory scientists will both benefit from this reference that applies discussions to both accurate specimen analysis and optimal patient care Hence this is the perfect reference for clinical laboratorians from trainees to experienced pathologists and directors Provides comprehensive coverage across endocrine oncology hematology immunohistochemistry immunology serology microbiology and molecular testing Includes new case studies that highlight clinical relevance and errors to avoid Highlights the best titles published within a variety of medical specialties Reviewed by medical librarians and content specialists with key selections compiled in their annual list

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