

50/50

Experiment 9 Prelaboratory Assignment

A Volumetric Analysis

Date 03/30

Desk No. _____

1. a. What is the titrant for this experiment?

NaOH (base), sodium hydroxide

- b. Is the indicator generally added to the titrant or the analyte in a titration?

The indicator, phenolphthalein, is added to the analyte, the acid.
It is colorless in an acid but pink in basic solutions.

2. a. What is the primary standard used in this experiment (name and formula)? Define a primary standard.

A primary standard is an accurate mass of a solid substance which is measured, dissolved in water, and then reacted.

↳ $\text{KHC}_8\text{H}_4\text{O}_4$, potassium hydrogen phthalate

- b. What is the secondary standard used in this experiment (name and formula)? Define a secondary standard.

A secondary standard is the standard remaining solution from after the molar concentration of the titrant is measured.

↳ NaOH, sodium hydroxide

3. Distinguish between a stoichiometric point and an endpoint in an acid-base titration.

reaction is complete
because amount
reactants that have
combined

when the indicator changes
colors due to the change
in pH

4. a. When rinsing a buret after cleaning it with soap and water, should the rinse be dispensed through the buret tip or the top opening of the buret? Explain.

The water and rinse should go through the tip. Solution will dispense through and help keep the concentration of the titrant the same.

- b. Experimental Procedure, Part A.4. In preparing the buret for titration, the final rinse is with the NaOH titrant rather than with deionized water. Explain.

The water can alter the values and the NaOH is hygroscopic.

5. Part A.3. Calculate the mass of $\text{KHC}_8\text{H}_4\text{O}_4$ (molar mass = 204.23 g/mol) that reacts with 15 mL of the 0.15 M NaOH solution prepared in Part A.2. Express this mass $\text{KHC}_8\text{H}_4\text{O}_4$ to the correct number of significant figures and record the calculation on the Report Sheet.

$$15 \text{ mL} = 0.015 \text{ L}$$

$$0.015 \text{ L (0.15 M)} = 0.00225 \text{ mol NaOH}$$

$$0.00225 \text{ mol NaOH} \cdot \frac{1 \text{ mol KHC}_8\text{H}_4\text{O}_4}{1 \text{ mol NaOH}} = 0.00225 \text{ mol KHC}_8\text{H}_4\text{O}_4$$

$$0.00225 \text{ mol KHC}_8\text{H}_4\text{O}_4 \times \left(\frac{204.23 \text{ g}}{1 \text{ mol}} \right) = \boxed{0.4595 \text{ g}}$$



General Chemistry Pre Lab Answers

Rachel S Tattersall



General Chemistry Pre Lab Answers:

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 **Experimental Organic Chemistry** Daniel R.

Palleros, 2000-02-04 This cutting edge lab manual takes a multiscale approach presenting both micro semi micro and macroscale techniques The manual is easy to navigate with all relevant techniques found as they are needed Cutting edge subjects such as HPLC bioorganic chemistry multistep synthesis and more are presented in a clear and engaging fashion

Laboratory Experiments for General Chemistry Harold R. Hunt, Toby F. Block, George M. McKelvy, 2002 This established manual focuses on using non hazardous materials to teach the experimental nature of general chemistry Experiments are written to address students of various academic backgrounds and differing interests and abilities in chemistry While most experiments can be conducted in a single three hour period some have been designed to be completed over an extended time to illustrate that chemical systems do not work at an arbitrary schedule Suggestions are provided for combining experiments of shorter length and similar pedagogy *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

Environmental Chemistry in the Lab Ruth Ann Murphy, 2022-08-31 *Environmental Chemistry in the Lab* presents a comprehensive approach to modern environmental chemistry laboratory instruction together with a complete experimental experience The laboratory experiments have an introduction for the students to read a pre lab for them to complete before coming to the lab a data sheet to complete during the lab and a post lab which would give them an opportunity to reinforce their understanding of the experiment completed Instructor resources include a list of all equipment and supplies needed for 24 students a lab preparation guide an answer key to all pre lab and post lab questions sample data for remote learners and a suggested rubric for grading the labs Additional features include Tested laboratory exercises with instructor resources for environmental science students Environmental calculations industrial regulation and environmental stewardship Classroom and remote exercises An excellent user friendly and thought provoking presentation which will appeal to students with little or no science background A qualitative approach to the chemistry behind many of our environmental issues today

Innovative Methods of Teaching and Learning Chemistry in Higher Education Ingo Eilks, Bill Byers, 2015-11-06 Two recent initiatives from the EU namely the Bologna Process and the Lisbon Agenda are likely to have a major influence on European Higher Education It seems unlikely that traditional teaching approaches which supported the elitist system of the past will promote the mobility widened participation and culture of life long learning that will provide the foundations for a future knowledge based economy There is therefore a clear need to seek new approaches to support the changes which will inevitably occur The European Chemistry Thematic Network ECTN is a network of some 160 university chemistry departments from throughout the EU as well as a number of National Chemical Societies including the RSC which provides a discussion forum for all aspects of higher education in chemistry This handbook is a result of one of their working groups who identified and collated good practice with respect to innovative methods in Higher Level Chemistry Education It provides a comprehensive overview of innovations in university chemistry teaching from a broad European perspective The generation of this book through a European Network with major national chemical societies and a large number of chemistry departments as members make the book unique The wide variety of scholars who have contributed to the book make it interesting and invaluable reading for both new and experienced chemistry lecturers throughout the EU and beyond The book is aimed at chemistry education at universities and other higher level institutions and at all academic staff and anyone interested in the teaching of chemistry at the tertiary level Although newly appointed teaching staff are a clear target for the book the innovative aspects of the topics covered are likely to prove interesting to all committed chemistry lecturers

Resources in Education , 1998 *Agile Learning Environments amid Disruption* Md Golam Jamil, Dawn A. Morley, 2022-12-12 This edited collection addresses the need of evaluating innovative or non traditional academic schemes for understanding their feasibility in extraordinary educational environments The individual chapters are enriched with

robust appraisals of policies and practices linked to academic innovations in higher education during the unprecedented COVID 19 pandemic The case studies report wide ranging teaching learning and academic support practices within online open blended and distance learning models The findings supply two domains of scholarship evidence based scenarios through real world case studies and a critical evaluation of educational quality through research informed argument The evidence gathered from countries such as Australia Bangladesh Canada China India Malaysia Nepal Saudi Arabia Thailand and the UK show empowering and deterring elements of academic innovation amid disruptions Although this book highlights academic innovations in disruptive situations they emerge as powerful tools and approaches to be considered in traditional face to face learning

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

General Catalogue Berea College, 1916 *Conference Proceedings. New Perspectives in Science Education* Pixel, 2017 **Virtual Reality in Education: Breakthroughs in Research and Practice** Management Association, Information

Resources, 2019-04-01 Modern technology has infiltrated many facets of society including educational environments Through the use of virtual learning educational systems can become more efficient at teaching the student population and break down cost and distance barriers to reach populations that traditionally could not afford a good education Virtual Reality in Education Breakthroughs in Research and Practice is an essential reference source on the uses of virtual reality in K 12 and higher education classrooms with a focus on pedagogical and instructional outcomes and strategies Highlighting a range of pertinent topics such as immersive virtual learning environments virtual laboratories and distance education this publication

is an ideal reference source for pre service and in service teachers school administrators principles higher education faculty K 12 instructors policymakers and researchers interested in virtual reality incorporation in the classroom *Handbook of Research on Advanced Hybrid Intelligent Techniques and Applications* Bhattacharyya, Siddhartha, Banerjee, Pinaki, Majumdar, Dipankar, Dutta, Paramartha, 2015-11-03 Conventional computational methods and even the latest soft computing paradigms often fall short in their ability to offer solutions to many real world problems due to uncertainty imprecision and circumstantial data Hybrid intelligent computing is a paradigm that addresses these issues to a considerable extent The Handbook of Research on Advanced Hybrid Intelligent Techniques and Applications highlights the latest research on various issues relating to the hybridization of artificial intelligence practical applications and best methods for implementation Focusing on key interdisciplinary computational intelligence research dealing with soft computing techniques pattern mining data analysis and computer vision this book is relevant to the research needs of academics IT specialists and graduate level students **Graduate School** Ohio State University. Graduate School, 1908 **Ohio State University Bulletin** , 1912 **General Chemistry** B. Richard Siebring, Mary Ellen Schaff, 1980 **Exploring Anatomy & Physiology in the Laboratory** Erin C. Amerman, 2017-02-01 Over two previous editions Exploring Anatomy Physiology in the Laboratory EAPL has become one of the best selling A P lab manuals on the market Its unique straightforward practical activity based approach to the study of anatomy and physiology in the laboratory has proven to be an effective approach for students nationwide This comprehensive beautifully illustrated and affordably priced manual is appropriate for a two semester anatomy and physiology laboratory course Through focused activities and by eliminating redundant exposition and artwork found in most primary textbooks this manual complements the lecture material and serves as an efficient and effective tool for learning in the lab **Catalogue of the Officers and Students** Berea College, 1914 Teaching Science Online Dietmar Kennepohl, 2023-07-03 With the increasing focus on science education growing attention is being paid to how science is taught Educators in science and science related disciplines are recognizing that distance delivery opens up new opportunities for delivering information providing interactivity collaborative opportunities and feedback as well as for increasing access for students This book presents the guidance of expert science educators from the US and from around the globe They describe key concepts delivery modes and emerging technologies and offer models of practice The book places particular emphasis on experimentation lab and field work as they are fundamentally part of the education in most scientific disciplines Chapters include Discipline methodology and teaching strategies in the specific areas of physics biology chemistry and earth sciences An overview of the important and appropriate learning technologies ICTs for each major science Best practices for establishing and maintaining a successful course online Insights and tips for handling practical components like laboratories and field work Coverage of breaking topics including MOOCs learning analytics open educational resources and m learning Strategies for engaging your students online *Empowering Science and Mathematics for Global*

Competitiveness Yuli Rahmawati, Peter Taylor, 2019-06-07 This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics The proceedings consist of 82 papers presented at the Science and Mathematics International Conference SMIC 2018 organised by the Faculty of Mathematics and Natural Sciences Universitas Negeri Jakarta Indonesia The proceedings are organised in four parts Science Science Education Mathematics and Mathematics Education The papers contribute to our understanding of important contemporary issues in science especially nanotechnology materials and environmental science science education in particular environmental sustainability STEM and STEAM education 21st century skills technology education and green chemistry and mathematics and its application in statistics computer science and mathematics education

General Chemistry Pre Lab Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**General Chemistry Pre Lab Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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