

Experiment 2: Identification of an Unknown Solid Acid

Post-lab Report Sheets

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Experimental objectives:

- To learn about the techniques of weighing by difference, quantitative transfer and standardization titrations
- To make a primary standard solution, use this solution to determine the concentration of a sodium hydroxide standard
- To use an NaOH standard to titrate against an unknown solid acid in order to determine the molar mass and thus identity of the unknown from the set of possible unknowns
- To develop skill in the use of unit analysis for calculations

NOTE: Marks are deducted each time 1-2 line unit analysis is not used AND each time significant figures are incorrect. Use care in all calculations!

Results Part A:

Mass of oxalic acid used:	1.2739g
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Calculation for determining the concentration of the oxalic acid solution, using unit analysis:

Molar mass of oxalic acid= 126.07g/mol

Mass of sample = 1.2739g

Volume of solution= 0.1L

$$1.2739\text{g}/126.07\text{g/mol} = 0.0101047\text{mols}$$

$$0.0101047\text{mols}/0.1\text{L} = 0.10104704\text{ M}$$

5 sig fig, round to
0.10104 M

Concentration of oxalic acid solution:	0.10104 M
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2 Groups In Lab Report

Mary Beth Zeni



2 Groups In Lab Report:

Group Process, Group Decision, Group Action 2/E Baron, Robert, Kerr, Norbert, 2003-03-01 This Open University text part of the Mapping Social Psychology series examines the processes involved when a group of people make a decision or take action together **Report**, 1957 **Principles of Epidemiology for Advanced Nursing Practice: A Population Health Perspective** Mary Beth Zeni, 2019-11-25 Principles of Epidemiology for Advanced Practice Nurses provides students and practitioners with an overview of epidemiology concepts as well as the history models and frameworks in use today **The Role of Laboratory Work in Improving Physics Teaching and Learning** Dagmara Sokołowska, Marisa Michelini, 2018-11-03 This book explores in detail the role of laboratory work in physics teaching and learning Compelling recent research work is presented on the value of experimentation in the learning process with description of important research based proposals on how to achieve improvements in both teaching and learning The book comprises a rigorously chosen selection of papers from a conference organized by the International Research Group on Physics Teaching GIREP an organization that promotes enhancement of the quality of physics teaching and learning at all educational levels and in all contexts The topics covered are wide ranging Examples include the roles of open inquiry experiments and advanced lab experiments the value of computer modeling in physics teaching the use of web based interactive video activities and smartphones in the lab the effectiveness of low cost experiments and assessment for learning through experimentation The presented research based proposals will be of interest to all who seek to improve physics teaching and learning

Outcome-Based Science, Technology, Engineering, and Mathematics Education: Innovative Practices Yusof, Khairiyah Mohd, Azli, Naziha Ahmad, Kosnin, Azlina Mohd, Yusof, Sharifah Kamilah Syed, Yusof, Yudariah Mohammad, 2012-06-30 This book provides insights into initiatives that enhance student learning and contribute to improving the quality of undergraduate STEM education Provided by publisher **VIII Latin American Conference on Biomedical Engineering and XLII National Conference on Biomedical Engineering** César A. González Díaz, Christian Chapa González, Eric Laciár Leber, Hugo A. Vélez, Norma P. Puente, Dora-Luz Flores, Adriano O. Andrade, Héctor A. Galván, Fabiola Martínez, Renato García, Citlalli J. Trujillo, Aldo R. Mejía, 2019-09-30 This book gathers the joint proceedings of the VIII Latin American Conference on Biomedical Engineering CLAIB 2019 and the XLII National Conference on Biomedical Engineering CNIB 2019 It reports on the latest findings and technological outcomes in the biomedical engineering field Topics include biomedical signal and image processing biosensors bioinstrumentation and micro nanotechnologies biomaterials and tissue engineering Advances in biomechanics biorobotics neurorehabilitation medical physics and clinical engineering are also discussed A special emphasis is given to practice oriented research and to the implementation of new technologies in clinical settings The book provides academics and professionals with extensive knowledge on and a timely snapshot of cutting edge research and developments in the field of biomedical engineering **Landmark Essays on Writing Across the**

Curriculum Charles Bazerman, David Russell, 2020-11-25 Rhetoric as a general teaching while preaching locality of action and guidelines for handling that locality has tended from the beginning to serve as a universality It has offered a generalized techne with only limited categories appropriate for all discursive situations at least for those that were not excluded from the realm of rhetoric Nonetheless from its beginnings rhetoric limited its interests to certain activity fields such as law government religion and most important the educators of leaders in these activity fields This collection presents landmarks showing where the Writing Across the Curriculum WAC and Writing in the Disciplines WID movements have gone They have opened up a number of prospects that were impossible to see when rhetoric and composition confined their gaze to relatively few discursive activities This suggests that the rhetorical landscape is becoming more complex and interesting as well as more responsive to life in the complex differentiated societies that have emerged in the last few centuries This volume will reveal to scholars and researchers a range of possibilities for the study of disciplinary discourse and its teaching and suggest to them new prospects for the future and for the better

Undergraduates in a Second Language Ilona Leki, 2017-09-25 This is the first book length study of bilingual international and immigrant students in English writing courses that attempts to fully embed their writing experiences within the broader frame of their personal histories the human context of their development and the disciplinary contexts of their majors It addresses the questions How useful are L2 writing courses for the students who are required to take them What do the students carry with them from these courses to their other disciplinary courses across the curriculum What happens to these students after they leave ESL English or writing classes Drawing on data from a 5 year longitudinal study of four university students for whom English was not their strongest primary language it captures their literacy experiences throughout their undergraduate careers The intensive case studies answer some questions and raise others about these students academic development as it entwined with their social experiences and identity formation and with the ideological context of studying at a US university in the 1990s Office of Education Research Reports, 1956-1965 United States. Office of Education, Educational Research Information Center (U.S.), 1967

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Office of Education Research Reports, 1956-65, ED 002 747-ED 003 960 Educational Research Information Center (U.S.), 1967

Public Health Reports, 1991 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1968

The Academic Skills Handbook Diana Hopkins, Tom Reid, 2024-02-29 This is your complete guide to success in navigating writing thinking and communicating at university Packed with tips diagnostic tools guided exercises and full text examples it equips you to boost your grades ace your assignments and get the most out of your time at university This book helps you Prepare for and navigate university culture Develop the academic skills needed for success at university Communicate your ideas with confidence and clarity Watch your skills grow with diagnostic tools Create your own study plan tailored to the skills you need Know what your tutor is looking for and how to deliver Turn your skills into success after

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Laboratory Exercises for Freshwater Ecology John E. Havel,2016-03-17 Limnology stream ecology and wetland ecology all share an interdisciplinary perspective of inland aquatic habitats Scientists working in these fields explore the roles of geographic position physical and chemical properties and the other biota on the different kinds of plants and animals living in freshwaters How do these creatures interact with each other and with their physical environment In what ways have humans impacted aquatic habitats By what methods do freshwater ecologists study these environments With this new laboratory manual Havel provides a variety of accessible hands on exercises to illuminate key concepts in freshwater ecology These exercises include a mixture of field trips indoor laboratory exercises and experiments with some portions involving qualitative observations and others more quantitative With the help of this manual students will develop an appreciation for careful techniques used in the laboratory and in the field as well as an understanding of how to collect accurate field notes keep a well organized lab notebook and write clear scientific reports

Mapping Professional Practice Heather Bell-Williams,Justin Baeder,2022-06-07 Put into action instructional frameworks help teachers locate their current level of fluency focus on the key dimensions of professional judgment and take their practice to the next level Discover how to accelerate teacher growth by taking the insider s view of practice articulating key dimensions of professional judgment to create clear growth pathways for teachers at every level of fluency Teacher leaders administrators and instructional coaches will gain a replicable process for Identifying the most promising areas of focus Drafting and piloting an initial framework Getting input and feedback from teachers Articulating a vision for exemplary practice Building momentum and overcoming resistance to change Contents Introduction Part 1 What Are Instructional Frameworks Chapter 1 Defining and Developing Instructional Frameworks Chapter 2 Making Shared Expectations More Specific Chapter 3 Instructional Frameworks in Action Case Studies Part 2 How to Develop Instructional Frameworks Chapter 4 Choose a Focus Chapter 5 Bounding Your Improvement Focus Chapter 6 Identifying Key Components Chapter 7 Articulating Levels of Fluency Chapter 8 Getting Started and Getting Input Part 3 Instructional Frameworks in

Action Chapter 9 Using Instructional Frameworks for Teacher Growth Chapter 10 Broader Applications for Instructional Frameworks Chapter 11 Supporting Organization Level Initiatives With Instructional Frameworks Conclusion Coming Full Circle Appendix A Q References and Resources Index **The ABCs of Group Visits** Edward B. Noffsinger, 2012-10-28 The US healthcare system faces numerous difficulties uncontrolled increases in costs major access problems doctor shortages closing practices inefficiencies decreasing revenues shrinking bottom lines large numbers of uninsured and underinsured patients and the upcoming increased demands in service posed by the Affordable Care Act As a result many physicians and health care organizations are turning to group visits to address these problems While Dr Noffsinger s textbook *Running Group Visits In Your Practice* is the cornerstone reference on designing implementing and running shared medical appointments SMAs in one s practice it lacks the simplicity and practicality that clinicians are looking for to start their own SMA programs *The ABCs of Group Visits* is a practical streamlined and step by step guide focused on the implementation aspects of group visits Healthcare professionals at every level are looking for alternate ways to deliver high quality care at lower cost and it is clear to many that group visits provide a care delivery model that will address many of today s critical challenges *The ABCs of Group Visits* quickly provides a solution for your busy practice

Unveiling the Magic of Words: A Review of "**2 Groups In Lab Report**"

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
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