

Lab Report 4.3

Title: Solvents and Solutes

Statement of the Problem: The water will tend to dissolve the substances that are either polar or ions.

Hypothesis: I hypothesize that since the sugar and salt are polar like the water, they will be easier to dissolve than the oils.

Materials:

- Five glasses
- Two stirring spoons
- Paper towel
- Measuring spoon of $\frac{1}{2}$ teaspoon (Tsp)
- Sugar
- Table salt
- Canola oil (or any other cooking oil other than olive oil)
- Olive oil
- Eye protection

Procedure:

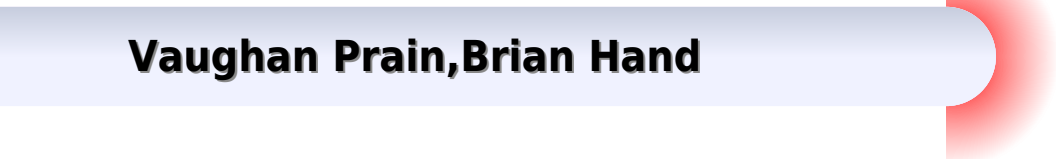
1. Fill 4 of the 5 glasses $\frac{3}{4}$ full of water.
2. Measure $\frac{1}{2}$ tsp of sugar and mix it in the water of the first glass.
3. In the second glass, try to mix $\frac{1}{2}$ tsp of Canola oil in the water. Record whether it worked or not.
4. With a different spoon, try to dissolve $\frac{1}{2}$ tsp of salt in the water of the third glass. Record whether it worked or not.
5. In the fourth glass, try to mix $\frac{1}{2}$ tsp of olive oil in the water. Record whether it worked or not.
6. In the fifth glass, pour a little canola oil and olive oil into the empty glass and try to mix them. Record whether it worked or not.
7. Clean up your mess.

Observations: The substances made up of polar molecules (sugar and salt) dissolved in the water because water is a polar solvent. Since oil is made up of non-polar molecules the water cannot dissolve them.

Conclusion: In this experiment, we investigated what water is really composed of. Water is made up of H_2O . In order to understand the problem we made two understandings that polar and non-polar molecules react in each other when it comes to making a solution. My results showed that polar molecules the water can dissolve and non-polar can't be mixed.

A Lab Report English Edition

Vaughan Prain, Brian Hand



A Lab Report English Edition:

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

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

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

Facets of Systems Science George J. Klir, 2012-12-06 This book has a rather strange history It began in spring 1989 thirteen years after our Systems Science Department at SUNY Binghamton was established when I was asked by a group of students in our doctoral program to have a meeting with them The spokesman of the group Cliff Joslyn opened our meeting by stating its purpose I can closely paraphrase what he said We called this meeting to discuss with you as Chairman of the Department a fundamental problem with our systems science curriculum In general we consider it a good curriculum we learn a lot of concepts principles and methodological tools mathematical computational heuristic which are fundamental to understanding and dealing with systems And yet we learn virtually nothing about systems science itself What is systems

science What are its historical roots What are its aims Where does it stand and where is it likely to go These are pressing questions to us After all aren't we supposed to carry the systems science flag after we graduate from this program We feel that a broad introductory course to systems science is urgently needed in the curriculum Do you agree with this assessment The answer was obvious and yet not easy to give I agree of course but I do not see how the situation could be alleviated in the foreseeable future *Science the "write" Way* Jodi Wheeler-Toppen, 2011 Writing skills are high on the list of real world requirements for all students including science students Every scientific discipline needs professionals who can ably communicate in writing Scientists must be able to describe their proposed studies for funding considerations track their observations and results in their own notes describe their experimental protocols for their peers to replicate and synthesize their work to the wider world community *Teaching with Purpose* Ann K. Fathman, John E. Penick, David T. Crowther, Robin Lee Harris, 2006 Making a case for a research based teaching rationale Elements of a research based rationale Developing a research based rationale Implementing your rationale and becoming a mentor *Cattle and People* Catarina Ginja, Elizabeth Wright, 2022-05-01 This volume originates in a conference session that took place at the 2018 International Council of Archaeozoology conference in Ankara Turkey entitled Humans and Cattle Interdisciplinary Perspectives to an Ancient Relationship The aim of the session was to bring together zooarchaeologists and their colleagues from various other research fields working on human cattle interactions over time The contributions in this volume reflect well the breadth of work being undertaken on the ancient relationship between humans and cattle across the continents of Europe Africa and Asia and from the late Pleistocene to postmedieval period Almost all involve the study of archaeological cattle remains and use different zooarchaeological methods but the combination of these approaches with that of ethnography isotopes and genetics is also featured Author Interview **Theorizing the Future of Science Education Research** Vaughan Prain, Brian Hand, 2019-10-22 This book reviews the current state of theoretical accounts of the what and how of science learning in schools The book starts out by presenting big picture perspectives on key issues In these first chapters it focuses on the range of resources students need to acquire and refine to become successful learners It examines meaningful learner purposes and processes for doing science and structural supports to optimize cognitive engagement and success Subsequent chapters address how particular purposes resources and experiences can be conceptualized as the basis to understand current practices They also show how future learning opportunities should be designed lived and reviewed to promote student engagement learning Specific topics include insights from neuro imaging actor network theory the role of reasoning in claim making for learning in science and development of disciplinary literacies including writing and multi modal meaning making All together the book offers leads to science educators on theoretical perspectives that have yielded valuable insights into science learning In addition it proposes new agendas to guide future practices and research in this subject

Resources in Education , 1996-10 **A Law Dictionary** John Bouvier, 1885

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