

Millikan Oil Drop Lab

Purpose

- to explore the Millikan Oil Drop experiment
- determine the value of the elementary charge

Apparatus

<https://www.thephysicsaviary.com/Physics/Programs/Labs/MillikanOilDropLab/index.html>

Procedure

1. Access the Millikan Oil Drop simulation by the link provided above under Apparatus
2. Follow the instructions in the simulation. Click begin and release the oil drops by pressing on the Spritzer. Then, click on the magnifier to zoom in on a single drop.
3. For the suspended droplet, draw a FBD of what is happening. Please note the orientation of the positive and negative charged plates. **[2 marks]**
4. Complete 20 trials, and construct a data table in the following manner: **[6 marks]**
(you will need to calculate some of the following items; refer to next page for additional information on equations and constants)

Trial Number	Radius (nm)	Volume (m^3)	Mass (kg)	Voltage (V)	Fg (N)	Electric Field (N/C)	Charge (C)

5. Group the values of similar charges together (trial group), and construct a second table to determine the difference in charge in these groups. Order the values from least to greatest. **[3 marks]**

Trial Group	Average Charge in Groupings	Difference in Charge between Groupings (i.e. Group 2- Group 1)

6. Determine the value of the elementary charge. **[3 marks]**

Millikan Oil Drop Lab Activity Answers

**George A. Williams, Richard
Barnes, Ray Doerhoff, Max Bolen**

Millikan Oil Drop Lab Activity Answers:

Information & Experimental Knowledge James Mattingly, 2021-12-13 An ambitious new model of experimentation that will reorient our understanding of the key features of experimental practice What is experimental knowledge and how do we get it While there is general agreement that experiment is a crucial source of scientific knowledge how experiment generates that knowledge is far more contentious In this book philosopher of science James Mattingly explains how experiments function Specifically he discusses what it is about experimental practice that transforms observations of what may be very localized particular isolated systems into what may be global general integrated empirical knowledge Mattingly argues that the purpose of experimentation is the same as the purpose of any other knowledge generating enterprise to change the state of information of the knower This trivial seeming point has a non trivial consequence to understand a knowledge generating enterprise we should follow the flow of information Therefore the account of experimental knowledge Mattingly provides is based on understanding how information flows in experiments what facilitates that flow what hinders it and what characteristics allow it to flow from system to system into the heads of researchers and finally into our store of scientific knowledge

A Guidebook for Teaching Physics William Yurkewicz, 1985 **Resources in education** , 1983-12 *From 'Science in the Making' to Understanding the Nature of Science* Mansoor Niaz, 2012-02-06 The Nature of Science is highly topical among science teacher educators and researchers Increasingly it is a mandated topic in state curriculum documents This book draws together recent research on Nature of Science studies within a historical and philosophical framework suitable for students and teacher educators Traditional science curricula and textbooks present science as a finished product Taking a different approach this book provides a glimpse of science in the making scientific practice imbued with arguments controversies and competition among rival theories and explanations Teaching about science in the making is a rich source of motivating students to engage creatively with the science curriculum Readers are introduced to science in the making through discussion and analysis of a wide range of historical episodes from the early 19th century to early 21st century Recent cutting edge research is presented to provide insight into the dynamics of scientific progress More than 90 studies from major science education journals related to nature of science are reviewed A theoretical framework field tested with in service science teachers is developed for moving from science in the making to understanding the Nature of Science

Students' Understanding of Research Methodology in the Context of Dynamics of Scientific Progress Mansoor Niaz, Mayra Rivas, 2016-04-20 This book discusses how to improve high school students understanding of research methodology based on alternative interpretations of data role of controversies creativity and the scientific method in the context of the oil drop experiment These aspects form an important part of the nature of science NOS The study reported in this volume is based on a reflective explicit and activity based approach to teaching nature of science NOS that can facilitate high school students understanding of how scientists elaborate theoretical frameworks design experiments report

data that leads to controversies and finally with the collaboration of the scientific community a consensus is reached Most students changed their perspective and drew concept maps in which they emphasized the creative accumulative controversial nature of science and the scientific method

The Nature of the Chemical Concept Keith S Taber, 2022-06-29 This book offers a step by step analysis and discussion of just why some students find chemistry difficult by examining the nature of chemistry concepts and how they are communicated and learnt

How Experiments End Peter Galison, 1987-10-15 Preface 1 Introduction 1 1 Strategies of Demonstration 1 2 Errors and Endings 1 3 Presuppositions and the Scope of Experimental Autonomy 1 4 Overview 2 From Aggregates to Atoms 2 1 History versus Statistics 2 2 The Apparatus of Averages 2 3 Molecular Magnets 2 4 The Electron 2 5 Einstein s Experiment 2 6 Einstein s Presuppositions 2 7 The Forgotten Influence of Terrestrial Magnetism 2 8 Expectations Defied 2 9 Ducks Rabbits and Errors 2 10 The Scylla and Charybdis of Ending an Experiment 3 Particles and Theories 3 1 Particles One by One 3 2 Millikan s Cosmic Rays 3 3 Beliefs behind the Birth Cry of Atoms 3 4 Contesting Instruments and Theories 3 5 Testing Quantum Mechanics 3 6 Quantum Theory Fails 3 7 A New Kind of Radiation 3 8 Regrouping the Phenomena 3 9 Two Cases for a New Particle 3 10 Corroboration by Theory Corroboration by Experiment 3 11 Persuasive Evidence and the End of Experiments 4 Ending a High Energy Physics Experiment 4 1 The Scale of High Energy Physics 4 2 The Collective Wisdom No Neutral Currents 4 3 Symmetries and Infinities 4 4 Priorities 4 5 Good Reasons for Disbelief 4 6 The Role of Theorists 4 7 Background and Signal 4 8 Do Neutral Currents Really Exist 4 9 A Picture Book Event 4 10 The Expanding Circle of Belief 4 11 Models Background and Commitment 4 12 Experiment 1A Parts and Participants 4 13 Short Circuits and High Theory 4 14 First Data 4 15 Shadow of a Suspicion 4 16 Dismantling an Ending 4 17 I Don t See How to Make These Effects Go Away 5 Theoretical and Experimental Cultures 5 1 Levels of Theoretical Commitment 5 2 Long Term Constraints 5 3 Middle Term Constraints 5 4 Short Term Constraints 5 5 Carving Away the Background 5 6 Directness Stability and the Stubbornness of Phenomena 6 Scale Complexity and the End of Experiments 6 1 The Assembly of Arguments 6 2 Collaborations and Communities 6 3 Subgroups Arguments and History 6 4 The End Appendix Authors of Papers on Neutral Currents Abbreviations for Archival Sources Bibliography Index

Construction with Circuits Amy Lue Lindbeck, 2001

Instructor's Manual Brian F. Woodfield, Matthew C. Asplund, 2006 NEW Click here to visit the Virtual ChemLab Frequently Asked Questions FAQ document This Instructor s Lab Manual Workbook is similar to the Student Lab Manual Workbook and additionally contains an overview of the full capabilities of the Site License version of Virtual ChemLab installation instructions and the answers for the laboratory assignments provided in the student laboratory workbook This product is available within Virtual ChemLab General Chemistry Instructor Lab Manual Workbook and Student CD Combo Package v2 5 0 13 228010 8 Valuepack and or should be ordered in conjunction with Virtual ChemLab General Chemistry Instructor Site License CD v2 5 0 13 185749 5

Nature of the Chemical Concept Keith S Taber, 2019-04-29 The features of chemistry that make it such a fascinating and

engaging subject to teach also contribute to it being a challenging subject for many learners Chemistry draws upon a wide range of abstract concepts which are embedded in a large body of theoretical knowledge As a science chemistry offers ideas that are the products of scientists creative imaginations and yet which are motivated and constrained by observations of natural phenomena Chemistry is often discussed and taught largely in terms of non observable theoretical entities such as molecules and electrons and orbitals which probably seem as familiar and real to a chemistry teacher as Bunsen burners and yet comprise a realm as alien and strange to many students as some learners own alternative conceptions misconceptions may appear to the teacher All chemistry teachers know that chemistry is a conceptual subject especially at the upper end of secondary school and at university level and that some students struggle to understand many chemical ideas This book offers a step by step analysis and discussion of just why some students find chemistry difficult by examining the nature of chemistry concepts and how they are communicated and learnt The book considers the idea of concepts itself draws upon case studies of how canonical chemical concepts have developed explores how chemical concepts become represented in curriculum and in classroom teaching and discusses how conceptual learning and development occurs This book will be invaluable to anyone interested in teaching and learning and offers guidance to teachers looking to make sense of and respond to the challenges of teaching chemistry

The Harvest of a Century Siegmund Brandt, 2009 Physics was the leading science of the twentieth century and the book retraces important discoveries made between 1895 and 2001 in 100 self contained Episodes Each is a short story of the scientists involved their time and their work The book is richly illustrated by about 600 portraits photographs and figures

In Memory of Akira Tonomura K. Fujikawa, 2014 This memorial volume in honor of Dr Akira Tonomura is to commemorate his enormous contributions to fundamental physics in addition to the basic technology of electron microscopy Dr Tonomura passed away on May 2 2012 at the age of 70 He was Fellow of Hitachi Ltd Group Director of Single Quantum Dynamics Research Group of RIKEN Principal Investigator of the FIRST Tonomura Project and Professor of Okinawa Institute of Science and Technology Graduate University The book consists of 1 contributions from distinguished physicists who participated in the OC Tonomura FIRST International Symposium on Electron Microscopy and Gauge FieldsOCO planned by Tonomura himself and held in Tokyo on May 9OCO10 2012 and 2 reprints of key papers by Tonomura and his team Invited speakers at this Symposium include Chen Ning Yang and other distinguished physicists such as Yakir Aharonov Gordon Baym Christian Colliex Anthony J Leggett Naoto Nagaosa Nobuyuki Osakabe and Masahito Ueda This OC memorialOCO Symposium was originally planned to commemorate the start of the Japanese government sponsored FIRST Tonomura Project to construct the 1 2 MV holography electron microscope capable of observing quantum phenomena in the microscopic world In addition the book includes contributions from participants of the past ISQM Tokyo symposia held at Hitachi and from Tonomura s longtime friends including Michael Berry Jerome Friedman Hidetoshi Fukuyama Joseph Imry Yoshinori Tokura Jaw Shen Tsai and Anton Zeilinger The co editors are Kazuo Fujikawa Tonomura s longtime friend and

Yoshimasa A Ono who is Tonomura's associate at Hitachi Advanced Research Laboratory and now in the FIRST Tonomura Project Contents My Dream of Ultimate Holography Electron Microscope Akira Tonomura Biography of Akira Tonomura April 1942 OCo May 2012 Nobuyuki Osakabe Tonomura FIRST International Symposium on OC Electron Microscopy and Gauge Fields OCo Yoshimasa A Ono Recollections of Akira Tonomura Thank You and Farewell to Tonomura kun Hidetoshi Fukuyama Remembering Akira Tonomura Michael Berry Akira Tonomura An Experimental Visionary Anton Zeilinger Dr Akira Tonomura Master of Experimental Physics Kazuo Fujikawa Gauge Theory and Aharonov Bohm Effect Topology and Gauge Theory in Physics Chen Ning Yang On the Aharonov Bohm Effect and Why Heisenberg Captures Nonlocality Better Than Schrödinger Yakir Aharonov How the Test of Aharonov Bohm Effect was Initiated at Hitachi Laboratory Nobuyuki Osakabe Some Reflections Concerning Geometrical Phases Anthony J Leggett and Yiruo Lin Mesoscopic Aharonov Bohm Interferometers Decoherence and Thermoelectric Transport Ora Entin Wohlman Amnon Aharony and Yoseph Imry Spin Textures and Gauge Fields in Frustrated Magnets Naoto Nagaosa and Yoshinori Tokura Gauge Theory and Artificial Spin Ices Imaging Emergent Monopoles with Electron Microscopy Shawn D Pollard and Yimei Zhu Do Dispersionless Forces Exist Herman Batelaan and Scot McGregor Aharonov Bohm Effect and Geometric Phases OCo Exact and Approximate Topology Kazuo Fujikawa A Brief Overview and Topological Aspects of Gaseous Bose Einstein Condensates Masahito Ueda Application of Electron Microscopy to Quantum Mechanics and Materials Sciences Mapping Electric Fields with Inelastic Electrons in a Transmission Electron Microscope Christian Colliex OC The Picture is My Life OCo Shuji Hasegawa Direct Observation of Electronically Phase Separated Charge Density Waves in $\text{Lu}_2\text{Ir}_3\text{Si}_5$ by Transmission Electron Microscopy Cheng Hsuan Chen Basic Discoveries in Electromagnetic Field Visualization Daisuke Shindo Nanomagnetism Visualized by Electron Holography Hyun Soon Park Quantum Physics Probing the Proton with Electron Microscopy Jerome I Friedman Hanbury Brown OCo Twiss Interferometry with Electrons Coulomb vs Quantum Statistics Gordon Baym and Kan Shen Vortex Molecules in Thin Films of Layered Superconductors Alexander I Buzdin Coherent Quantum Phase Slip Jaw Shen Tsai Coherency of Spin Precession in Metallic Lateral Spin Valves YoshiChika Otani Hiroshi Idzuchi and Yasuhiro Fukuma Transverse Relativistic Effects in Paraxial Wave Interference Konstantin Y Bliokh Yana V Izdebskaya and Franco Nori Readership Graduate students and researchers in physics materials science and related fields

The Neglect of Experiment Allan Franklin, 1989-09-29 What role have experiments played and should they play in physics How does one come to believe rationally in experimental results The Neglect of Experiment attempts to provide answers to both of these questions Professor Franklin's approach combines the detailed study of four episodes in the history of twentieth century physics with an examination of some of the philosophical issues involved The episodes are the discovery of parity nonconservation or the violation of mirror symmetry in the 1950s the nondiscovery of parity nonconservation in the 1930s when the results of experiments indicated at least in retrospect the symmetry violation but the significance of those results was not realized the discovery and acceptance of CP combined parity

charge conjugations particle antiparticle symmetry and Millikan's oil drop experiment Franklin examines the various roles that experiment plays including its role in deciding between competing theories confirming theories and calling for new theories The author argues that one can provide a philosophical justification for these roles He contends that if experiment plays such important roles then one must have good reason to believe in experimental results He then deals with several problems concerning such results including the epistemology of experiment how one comes to believe rationally in experimental results the question of the influence of theoretical presuppositions on results and the problem of scientific fraud This original and important contribution to the study of the philosophy of experimental science is an outgrowth of many years of research Franklin brings to this work more than a decade of experience as an experimental high energy physicist along with his significant contributions to the history and philosophy of science

Chemical Pedagogy Keith S Taber, 2024-12-20 How should chemistry be taught in schools colleges and universities Chemical Pedagogy discusses teaching approaches and techniques the reasoning behind them and the evidence for their effectiveness The book surveys a wide range of different pedagogic strategies and tactics that have been recommended to better engage learners and provide more effective chemistry teaching These accounts are supported by an initial introduction to some key ideas and debates about pedagogy the science of teaching Chemical Pedagogy discusses how teaching innovations can be tested to inform research based practice Through this book the author explores the challenges of carrying out valid experimental studies in education and the impediments to generalising study results to diverse teaching and learning contexts As a result the author highlights both the need to read published studies critically and the value of teachers and lecturers testing out recommended innovations in their own classrooms Chemical Pedagogy introduces core principles from research into human cognition and learning to provide a theoretical perspective on how to best teach for engagement and understanding An examination of some of the more contentious debates about pedagogy leads to the advice to seek optimally guided instruction which balances the challenge offered to learners with the level of support provided This provides a framework for discussing a wide range of teaching approaches and techniques that have been recommended to those teaching chemistry across educational levels including both those intended to replace teaching from the front and others that can be built into traditional lecture courses to enhance the learning experience

Epistemology of Experimental Physics Nora Mills Boyd, 2021-12-02 This Element introduces major issues in the epistemology of experimental physics through discussion of canonical physics experiments and some that have not yet received much philosophical attention The primary challenge is to make sense of how physicists justify crucial decisions made in the course of empirical research Judging a result as epistemically significant or as calling for further technical scrutiny of the equipment is one important context of such decisions Judging whether the instrument has been calibrated and which data should be included in the analysis are others To what extent is it possible to offer philosophical analysis systematization and prescriptions regarding such decisions To what extent can there be explicit

epistemic justification for them The primary aim of this Element is to show how a nuanced understanding of science in practice informs an epistemology of experimental physics that avoids strong social constructivism **Research in Education** ,1973 *Nuclear Science Abstracts* ,1970 Nuclear Physics Mr. Rohit Manglik,2024-07-16 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Physical Science** George A. Williams,Richard Barnes,Ray Doerhoff,Max Bolen,1979 A physical science text stressing an awareness of the environment with related laboratory activities to lead the student into discovering basic laws and concepts of physics and chemistry
 Automotive Engineering ,1921

Whispering the Techniques of Language: An Emotional Journey through **Millikan Oil Drop Lab Activity Answers**

In a digitally-driven earth where displays reign supreme and instant conversation drowns out the subtleties of language, the profound secrets and psychological nuances concealed within words often get unheard. Yet, nestled within the pages of **Millikan Oil Drop Lab Activity Answers** a interesting literary treasure sporting with natural emotions, lies an exceptional quest waiting to be undertaken. Written by an experienced wordsmith, that wonderful opus attracts viewers on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within the fabric of each word. Within the mental depths of the poignant evaluation, we shall embark upon a honest exploration of the book is core styles, dissect their captivating writing type, and fail to the powerful resonance it evokes strong within the recesses of readers hearts.

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