



## Chemistry 430 POGIL : Measurement & Units

Measurements, and subsequently calculations, allow the determination of some of the properties of a substance. E.g. Mass and density.

### Part 1: SI Base Units and Prefixes

Units tell us what scale is being used for measurement. Some common units and prefixes that you will encounter frequently in this course are given below.

Units

Base Quantity	Name of Unit	Symbol
Mass	Kilogram	kg
Length	Meter	m
Time	Second	s
Amount of Substance	Mole	mol
Temperature	Kelvin	K

Common Prefixes

Prefix	Symbol	Meaning
Mega	M	$10^6$
Kilo	k	$10^3$
Centi	c	$10^{-2}$
Milli	m	$10^{-3}$
Micro	$\mu$	$10^{-6}$
Nano	n	$10^{-9}$

### Dimensional Analysis

One unit can be converted to another by using a conversion factor. Some helpful examples are shown below, with conversion factors in parenthesis:

How many hectares are there in 33.5 acres? (1 hectare = 2.47 acres).

$$33.5 \text{ acres} \left( \frac{1 \text{ hectare}}{2.47 \text{ acres}} \right) = 13.6 \text{ hectares}$$

How many acres are there in 12.5 hectares?

$$12.5 \text{ hectares} \left( \frac{2.47 \text{ acres}}{1 \text{ hectare}} \right) = 30.9 \text{ acres}$$

Convert  $155 \text{ g/cm}^3$  to  $\text{kg/L}$  (1 kg = 1000g and  $1000 \text{ cm}^3 = 1 \text{ L}$ )

$$\left( \frac{155 \text{ g}}{1 \text{ cm}^3} \right) \left( \frac{1 \text{ kg}}{1000 \text{ g}} \right) \left( \frac{1000 \text{ cm}^3}{1 \text{ L}} \right) = 155 \text{ kg/L}$$

Note that in each case, the correct choice is the one that allows the cancellation of the unwanted units. This method of converting between units is called the factor-labeling method or **dimensional analysis**.

# Pogil For Measurement

**Yan Bai**



## **Pogil For Measurement:**

**POGIL** Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

*Analytical Chemistry* Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more

**Chemistry Education in the ICT Age** Minu Gupta Bhowon, Sabina

Jhaumeer-Laulloo, Henri Li Kam Wah, Ponnadurai Ramasami, 2009-07-21 The 20 International Conference on Chemical Education 20 ICCE which had Chemistry in the ICT Age as the theme was held from 3 to 8 August 2008 at Le Meridien Hotel Pointe aux Piments in Mauritius With more than 200 participants from 40 countries the conference featured 140 oral and 50 poster presentations Participants of the 20 ICCE were invited to submit full papers and the latter were subjected to peer review The selected accepted papers are collected in this book of proceedings This book of proceedings encloses 39 presentations covering topics ranging from fundamental to applied chemistry such as Arts and Chemistry Education Biochemistry and Biotechnology Chemical Education for Development Chemistry at Secondary Level Chemistry at Tertiary Level Chemistry Teacher Education Chemistry and Society Chemistry Olympiad Context Oriented Chemistry ICT and Chemistry Education Green Chemistry Micro Scale Chemistry Modern Technologies in Chemistry Education Network for Chemistry and Chemical Engineering Education Public Understanding of Chemistry Research in Chemistry Education and Science Education at Elementary Level We would like to thank those who submitted the full papers and the reviewers for their timely help in assessing the papers for publication We would also like to pay a special tribute to all the sponsors of the 20 ICCE and in particular the Tertiary Education Commission <http://tec.intnet.mu> and the Organisation for the Prohibition of Chemical Weapons <http://www.opcw.org> for kindly agreeing to fund the publication of these proceedings

**Lectures on Measure Theory and Probability** Harry Raymond Pitt, 1963 [Design and Analysis in Quantitative Educational Research](#)

Kamden K. Strunk, Mwarumba Mwavita, 2024-08-20 Design and Analysis in Quantitative Educational Research Univariate Designs in SPSS presents an integrated approach to learning about research design alongside statistical analysis concepts The authors maintain a focus on applied educational research throughout the text with practical tips and advice on how to do high quality quantitative research This book teaches research design including epistemology research ethics forming research questions quantitative design sampling methodologies and design assumptions and introductory statistical concepts including descriptive statistics probability theory and sampling distributions basic statistical tests like z and t ANOVA designs including more advanced designs like the factorial ANOVA and mixed ANOVA simple linear regression and multiple regression using SPSS for analysis Designed specifically for an introductory graduate course in research design and statistical analysis the book takes students through principles by presenting case studies describing the research design principles at play in each study and then asking students to walk through the process of analyzing data that reproduce the published results The new edition has been updated to include the latest contemporary research developments coverage of IBM SPSS Statistics version 29 and also features new case studies many focused on race and racism as well as other equity and justice work and additional content on covariance and correlation An online eResource is also available with data sets This textbook is tailor made for first level doctoral courses in research design and analysis and will also be of interest to graduate students in education and educational research

**Called to Teach** Christopher J. Richmann, J. Lenore

Wright,2020-08-04 The call to teach means different things to different people This collection contends however that at the very least faithful work in the teaching vocation involves excellence commitment and community Representing diverse disciplines and institutional perspectives from a Christian research university the contributors present reflections based on personal experience empirical data and theoretical models This wide ranging collection offers insight encouragement and a challenge to teachers in all areas of Christian higher education Building upon the legacy of thoughtful teaching at Baylor University while looking toward the future of higher education this collection is framed for Christians who teach in higher education but who are also committed to research and graduate training *ECEL 2018 17th European Conference on e-Learning* Klimis Ntalianis,Antonios Andreatos,Cleo Sgouropoulou,2018-11-01 The European Conference on e Learning was established 17 years ago It has been held in France Portugal England The Netherlands Greece and Denmark to mention only a few of the countries who have hosted it ECEL is generally attended by participants from more than 40 countries and attracts an interesting combination of academic scholars practitioners and individuals who are engaged in various aspects of e Learning Among other journals the Electronic Journal of e Learning publishes a special edition of the best papers presented at this conference **The Cambridge Handbook of Computing Education Research** Sally A. Fincher,Anthony V. Robins,2019-02-13 This is an authoritative introduction to Computing Education research written by over 50 leading researchers from academia and the industry **Process Oriented Guided Inquiry Learning (POGIL)** Richard Samuel Moog,2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes **Engaging Student Voices in the Study of Teaching and Learning** Carmen Werder,Megan M. Otis,2023-07-03 This book addresses the all important dimensions of collaboration in the study of learning raised by such questions as Should teachers engage students directly in discussions and inquiry about learning To what extent What is gained by the collaboration Does it improve learning and what do shared responsibilities mean for classroom dynamics and beyond Practicing what it advocates a faculty student team co edited this book and faculty student or former student teams co authored eight of its eleven chapters The opening section of this book explores such dimensions of student voices in the scholarship of teaching and learning SoTL as power and authority in the classroom collaborative meaning making and the role of students as both learners and experts on their own learning It opens up the process of knowledge building to a wider group of participants and expands our conception of who has expertise to contribute for instance recognizing students insider knowledge of themselves as learners Using various institutional models to illustrate these foundational concepts part one provides a context for understanding the detailed examples that follow The case studies in the second half of the volume illustrate how these concepts play out inside and outside the classroom when students shift from serving as research subjects in a SoTL study to working as independent researchers or as partners with faculty in such work as studying curricular design redesign

readings requirements and assessment This co inquiry brings the principles and benefits of the broader undergraduate research movement to the topic of teaching and learning It also increases student researchers sense of themselves as independent learners While recognizing the impossibility of engaging every student in the scholarship of teaching and learning in every course the editors and contributors make the case for making such opportunities available as broadly as possible because as this volume also makes clear this is transformational work with the potential to produce paradigm shifts turning points new insights and changes in classroom culture for both faculty and students The contributors demonstrate how they validated student voices in theory method and methodology across a wide variety of disciplines and while engaging with different pedagogies Disciplinary examples include anthropology communication chemistry criminal science education English geography history human services mathematics psychology sociology theater arts philosophy and political science

**Chemists' Guide to Effective Teaching** Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry

**Handbook of Complementary, Alternative, and Integrative Medicine** Yaser Mohammed Al-Worafi, 2024-09-26 Volume 1 focuses on complementary alternative and integrative medicine CAM education Its 20 chapters cover CAM education history needed competencies and curriculum reform among other topics It is Volume 1 of 6 that describe the education practice and research related issues and the efficacy and safety of CAM in treating various conditions The purpose of these six volumes sold individually or as a set is to explain how complementary alternative and integrative medicine is practiced around the world to share the best practice experiences in terms of education practice and research and identify the challenges and suggest recommendations to overcome the identified challenges Key Features Addresses worldwide issues of education training assessment and accreditation in complementary and alternative medicine Deals with such hot topics as access equitable access online education and quality and accreditation Serves as part of a six volume comprehensive treatment of complementary alternative and integrative medicine as practiced around the world

**Overcoming Students' Misconceptions in Science** Mageswary Karpudewan, Ahmad Nurulazam Md Zain, A.L. Chandrasegaran, 2017-02-28 This book discusses the importance of identifying and addressing misconceptions for the successful teaching and learning of science across all levels of science education from elementary school to high school It suggests teaching approaches based on research data to address students common misconceptions Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included The science education literature extensively

documents the findings of studies about students' misconceptions or alternative conceptions about various science concepts. Furthermore, some of the studies involve systematic approaches to not only creating but also implementing instructional programs to reduce the incidence of these misconceptions among high school science students. These studies, however, are largely unavailable to classroom practitioners partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them. In response, this book offers an essential and easily accessible guide. **Making Chemistry Relevant** Sharmistha Basu-Dutt, 2010-02-19. Unique new approaches for making chemistry accessible to diverse students. Students' interest and achievement in academics improve dramatically when they make connections between what they are learning and the potential uses of that knowledge in the workplace and/or in the world at large. *Making Chemistry Relevant* presents a unique collection of strategies that have been used successfully in chemistry classrooms to create a learner-sensitive environment that enhances academic achievement and social competence of students. Rejecting rote memorization, the book proposes a cognitive constructivist philosophy that casts the teacher as a facilitator helping students to construct solutions to problems. Written by chemistry professors and research groups from a wide variety of colleges and universities, the book offers a number of creative ways to make chemistry relevant to the student, including teaching science in the context of major life issues and STEM professions, relating chemistry to current events such as global warming, pollution, and terrorism, integrating science research into the undergraduate laboratory curriculum, enriching the learning experience for students with a variety of learning styles as well as accommodating the visually challenged students. Using media, hypermedia, games, and puzzles in the teaching of chemistry. Both novice and experienced faculty alike will find valuable ideas ready to be applied and adapted to enhance the learning experience of all their students.

**m-Science: Sensing, Computing and Dissemination** Enrique Canessa, 2010. *Broadening Participation in STEM* Zayika Wilson-Kennedy, Goldie S. Byrd, Eugene Kennedy, Henry T. Frierson, 2019-02-28. This book reports on high impact educational practices and programs that have been demonstrated to be effective at broadening the participation of underrepresented groups in the STEM disciplines. **Science Inquiry, Argument and Language**, 2019-02-18. *Science Inquiry, Argument and Language* describes research that has focused on addressing the issue of embedding language practices within science inquiry through the use of the Science Writing Heuristic approach. In recent years, much attention has been given to two areas of science education: scientific argumentation and science literacy. The research into scientific argument has adopted different orientations, with some focusing on science argument as separate to normal teaching practices, that is, teaching students about science argument prior to using it in the classroom context, while others have focused on embedding science argument as a critical component of the inquiry process. The current emphasis on science literacy has emerged because of greater understanding of the role of language in doing and reporting on science. Science is not viewed as being separate from language, and thus there is emerging research emphasis on how best to improve science

teaching and learning through a language perspective Again the research orientations are parallel to the research on scientific argumentation in that the focus is generally between instruction separate to practice as opposed to embedding language practices within the science classroom context

**A Guide to Teaching in the Active Learning Classroom** Paul Baeppler, J. D. Walker, D. Christopher Brooks, Kem Saichaie, Christina I. Petersen, 2023-07-03 While Active Learning Classrooms or ALCs offer rich new environments for learning they present many new challenges to faculty because among other things they eliminate the room's central focal point and disrupt the conventional seating plan to which faculty and students have become accustomed The importance of learning how to use these classrooms well and to capitalize on their special features is paramount The potential they represent can be realized only when they facilitate improved learning outcomes and engage students in the learning process in a manner different from traditional classrooms and lecture halls This book provides an introduction to ALCs briefly covering their history and then synthesizing the research on these spaces to provide faculty with empirically based practical guidance on how to use these unfamiliar spaces effectively Among the questions this book addresses are How can instructors mitigate the apparent lack of a central focal point in the space What types of learning activities work well in the ALCs and take advantage of the affordances of the room How can teachers address familiar classroom management challenges in these unfamiliar spaces If assessment and rapid feedback are critical in active learning how do they work in a room filled with circular tables and no central focus point How do instructors balance group learning with the needs of the larger class How can students be held accountable when many will necessarily have their backs facing the instructor How can instructors evaluate the effectiveness of their teaching in these spaces This book is intended for faculty preparing to teach in or already working in this new classroom environment for administrators planning to create ALCs or experimenting with provisionally designed rooms and for faculty developers helping teachers transition to using these new spaces

**Design and Analysis in Educational Research Using jamovi** Kamden K. Strunk, Mwarumba Mwavita, 2021-07-29 Design and Analysis in Educational Research Using jamovi is an integrated approach to learning about research design alongside statistical analysis concepts Strunk and Mwavita maintain a focus on applied educational research throughout the text with practical tips and advice on how to do high quality quantitative research Based on their successful SPSS version of the book the authors focus on using jamovi in this version due to its accessibility as open source software and ease of use The book teaches research design including epistemology research ethics forming research questions quantitative design sampling methodologies and design assumptions and introductory statistical concepts including descriptive statistics probability theory sampling distributions basic statistical tests like z and t and ANOVA designs including more advanced designs like the factorial ANOVA and mixed ANOVA This textbook is tailor made for first level doctoral courses in research design and analysis It will also be of interest to graduate students in education and educational research The book includes Support Material with downloadable data sets and new case study material from the authors for teaching



on race racism and Black Lives Matter available at [www.routledge.com/9780367723088](http://www.routledge.com/9780367723088)      **Chemistry Education** Javier García-Martínez, Elena Serrano-Torregrosa, 2015-05-04 Winner of the CHOICE Outstanding Academic Title 2017 Award This comprehensive collection of top level contributions provides a thorough review of the vibrant field of chemistry education Highly experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching as well as the pivotal role of chemistry for shaping a more sustainable future Adopting a practice oriented approach the current challenges and opportunities posed by chemistry education are critically discussed highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them The main topics discussed include best practices project based education blended learning and the role of technology including e learning and science visualization Hands on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively from experience chemistry professors to secondary school teachers from educators with no formal training in didactics to frustrated chemistry students

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