

Significant Digits and Measurement

What digits are significant when recording a measurement?

Why?

Scientists do a lot of measuring. When scientists use an instrument (such as a ruler, graduated cylinder, spectrophotometer or balance) to measure something, it is important to take full advantage of the instrument. However, they can't cheat and record a better measurement than the instrument is capable of. There is an understanding among scientists of the proper way to record valid measurements from any instrument. When you are the scientist, you must record data in this way. When you are reading other scientists' work, you must assume they recorded their data in this way.

Model 1 – Ruler A



Susan	3 cm
Maya	2 cm
Jonah	2.5 cm
Tony	3.00 cm
Emily	3¼ cm
Dionne	3.33 cm

1. What distances can you be certain of on the ruler in Model 1?
2. Six students used the ruler in Model 1 to measure the length of a metal strip. Their measurements are shown at the right. Were all of the students able to agree on a single value (1, 2, 3...) for any digit (ones place, tenths place, etc.) in the measurement? If yes, which value and digit did they agree on?
3. The ruler in Model 1 is not very useful, but a measurement can be estimated. Discuss in your group how each student might have divided up the ruler "by eye" in order to get the measurement that he or she recorded.

Pogil 5 3

United States. Army Map Service



Pogil 5 3:

Handbook of STEM Faculty Development Sandra M. Linder, Cindy M. Lee, Shannon K Stefl, Karen A. High, 2022-12-01

Faculty in the science technology engineering and mathematics STEM disciplines face intensifying pressures in the 21st century including multiple roles as educator researcher and entrepreneur In addition to continuously increasing teaching and service expectations faculty are engaged in substantive research that requires securing external funding mentoring other faculty and graduate students and disseminating this work in a broad range of scholarly outlets Societal needs of their expertise include discovery innovation and workforce development It is critical to provide STEM faculty with the professional development to support their complex roles and to base this development on evidence derived from research This edited handbook provides STEM stakeholders with an opportunity to share studies and or experiences that explore STEM faculty development FD in higher education settings More specifically we include work that examines faculty development planning techniques models experiences and outcomes focused on supporting the teaching research service and leadership responsibilities of STEM faculty The Handbook is suited for researchers and practitioners in STEM STEM Education Mathematics Science Technology and Engineering disciplines It is also suited towards faculty developers higher education administrators funding agencies industry leaders and the STEM community at large This handbook is organized around three constructs INPUTS MECHANISMS and OUTPUTS The STEM faculty development inputs construct focuses on topics related to the characteristics of faculty members and institutions that serve as barriers or supports to the adoption and implementation of holistic STEM faculty development programs Questions addressed in the handbook around this topic include What barriers supports exist for STEM faculty How are these barriers supports being addressed through STEM FD How do contexts e g economic political historical influence faculty administrative needs related to STEM FD How do demographics e g gender ethnicity age family background influence faculty administrative needs related to STEM FD The STEM faculty development mechanisms construct focuses on topics related to the actual implementation of STEM faculty development and we consider the potential models or structures of STEM faculty development that are currently in place or conceptualized in theory Questions addressed in the handbook around this topic include What are the processes for developing models of STEM FD What are effective models of STEM FD How is effectiveness determined What roles do stakeholders e g faculty administration consultants play within STEM FD mechanisms The STEM faculty development outputs construct focuses on how to best understand the influence of STEM faculty development on outcomes such as productivity teacher quality and identity in relation to faculty development Questions addressed in the handbook around this topic include How has STEM FD influenced higher education practices and settings What are appropriate output measures and how are they used in practice What collaborations emerge from STEM FD How does STEM FD affect other STEM stakeholders e g students administration business community The aim for this handbook was to examine the multifaceted

demands of faculty roles and together with members of the STEM education community envision pathways through which universities and individuals may support STEM colleagues regardless of their experience or rank to enjoy long and satisfying careers Our hope is for these chapters to aid readers in deep reflection on challenges faculty face to contemplate adaptations of models presented and to draw inspiration for creating or engaging in new professional development programs Chapters across this handbook highlight a variety of institutional contexts from 2 year technical colleges to teaching focused institutions in addition to research centric settings Some chapters focus primarily on teaching and learning practices and offer models for improving STEM instruction Others focus on barriers that emerge for STEM faculty when trying to engage in development experiences There are chapters that examine tenure structures in relation to faculty development and how STEM FD efforts could support research endeavors Mentorship and leadership models are also addressed along with a focus on equity issues that permeate higher education and impact STEM FD It is our sincere hope that this Handbook sparks increased discourse and continued explorations related to STEM FD and in particular the intentional focus of faculty development initiatives to extend to the many facets of academic life

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

Mobility for Smart Cities and Regional Development - Challenges for Higher Education Michael E. Auer, Hanno Hortsch, Oliver Michler, Thomas Köhler, 2022-01-27 This book presents recent research on interactive collaborative learning We are currently witnessing a significant transformation in the development of education and especially post secondary education To face these challenges higher education has to find innovative ways to quickly respond to these new needs On the one hand there is a pressure by the new situation in regard to the COVID pandemic On the other hand the methods and organizational forms of teaching and learning at higher educational institutions have changed rapidly in recent months Scientifically based statements as well as excellent experiences best practice are absolutely necessary These were the aims connected with the 24th International Conference on Interactive Collaborative Learning ICL2021 which was held online by Technische Universität Dresden Germany on 22-24 September 2021 Since its beginning in 1998 this conference is devoted to new approaches in learning with a focus on collaborative learning in Higher Education Nowadays the ICL conferences are a forum of the exchange of relevant trends and research results as well as the presentation of practical experiences in Learning and Engineering Pedagogy In this way we try to bridge the gap between pure scientific research and the everyday work of educators This book contains papers in the fields of Teaching Best Practices Research in Engineering Pedagogy Engineering Pedagogy Education Entrepreneurship in Engineering Education Project Based Learning Virtual and Augmented Learning Immersive Learning in Healthcare and Medical Education Interested readership includes policymakers academics educators researchers in pedagogy and learning theory schoolteachers learning industry further and continuing education

lecturers etc **Advancing teaching and learning in health sciences across healthcare professionals** Mário Gomes, Roger Azevedo, Ana Grilo, Ana Isabel Gomes Salgado, 2023-10-25 **Computer Supported Education** Beno Csapó, James Uhomoibhi, 2022-08-20 This book constitutes selected revised and extended papers from the 13th International Conference on Computer Supported Education CSEDU 2021 held as a virtual event in April 2021 The 27 revised full papers were carefully reviewed and selected from 143 submissions They were organized in topical sections as follows artificial intelligence in education information technologies supporting learning learning teaching methodologies and assessment social context and learning environments ubiquitous learning current topics **Advances in Computing and Communications, Part III** Ajith Abraham, Jaime Lloret Mauri, John Buford, Junichi Suzuki, Sabu M. Thampi, 2011-07-08 This volume is the third part of a four volume set CCIS 190 CCIS 191 CCIS 192 CCIS 193 which constitutes the refereed proceedings of the First International Conference on Computing and Communications ACC 2011 held in Kochi India in July 2011 The 70 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions The papers are organized in topical sections on security trust and privacy sensor networks signal and image processing soft computing techniques system software vehicular communications networks **Names south of 37° latitude** United States. Army Map Service, 1950 **Making Chemistry Relevant** Sharmistha Basu-Dutt, 2010-03-15 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 *The Collected Works of M.A. Czaplicka* Marie Antoinette Czaplicka, 1999 *Post Covid 19 Learning Recovery* S. Veena, Covid 19 has impacted and changed the education sector to a different level Due to the widespread effects of COVID 19 schools and other educational institutions had to close In an effort to lessen the effects of COVID 19 the majority of governments first chose to temporarily close schools Children s learning has suffered as a result of

the pandemic's prolonged school closures. In this way, a whole school year has passed with little to no curriculum learning in the present class. However, this is merely one type of learning loss. The pervasive problem of pupils forgetting what they learned in a previous session is equally concerning because it represents a setback in their academic learning. This involves losing fundamental skills that are the cornerstone of additional learning, such as reading comprehension and addition and multiplication, which they had previously mastered. Systemic, diverse, and well-coordinated activities are necessary for learning recovery. In addition to focusing on teacher capacity and support and disseminating ideas that all instructors can apply, the strategy needs to be comprehensive and long-term. For learning recovery to be effective, equitable, and long-lasting, it must also be transformational. The foundation of curriculum reform is meaningful learning and teaching coupled with an awareness of the system's capacity to implement the reform stages as effectively as possible. Curriculum reform is not a stand-alone process. Whether it's a learner-centered, spiral, technology-centered, or curriculum for the twenty-first century, any curriculum that adheres to pedagogy is appreciated. It is vital to plan and organize the shift so that it incorporates the core topics of reading and numeracy and also establishes a connection between the learner and his or her surroundings and culture. By putting such strategies into practice, the failure factors of curricular reform will be slowed down. The idea that the present is the best predictor of the future will help support groups choose and create a curriculum that equips kids to deal with the fallout from challenging circumstances such as the pandemic and others of a similar nature. Long-term gains in children's learning, however, depend on pre-service teachers' education being of higher quality. Children's learning may be enhanced by strengthening the ICT environment for instruction, but only if teachers' ICT competencies are also improved. To connect the learning of children with the professional development of teachers, more study is required. Students' learning may benefit from increased teacher motivation brought about by certification programmes, pay structure modifications, improved school leadership, and more transparent evaluation procedures. As a result, the book covers a wide range of important subjects pertaining to education in the post-pandemic era, such as how to establish a strong rapport between students and teachers, systemic interventions that reframe teachers' roles as edupreneurs, the effects of digital technology on the teaching-learning process, techniques for filling in knowledge gaps in curricula, pedagogy and assessments, and safeguards for private school sustainability. All those with an interest in the post-pandemic recovery of schools, with a focus on creating a fair, inclusive, and comprehensive national education system, may find the book to be a useful resource.

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

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

Harmonized Tariff Schedule of the United States United States, 1987

Chemistry Education in the ICT Age Minu Gupta Bhowon, Sabina Jhaumeer-Laulloo, Henri Li Kam Wah, Ponnadurai Ramasami, 2009-07-21 th th The 20 International Conference on Chemical Education 20 ICCE which had rd th 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 th 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 th 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

Transparency in Assessment - Exploring the Influence of Explicit Assessment

Criteria Anders Jönsson, Frans Prins, 2019-04-03 In many schools and higher education institutions it has become common practice to share assessment criteria with students Sometimes it is required for accountability purposes at other times criteria are used as a means to communicate expectations to students However the idea that explicit assessment criteria should be shared with students has been contested On the one hand research has shown that explicit criteria may positively affect student performance reduce their anxiety as well as support students use of self regulated learning strategies On the other hand there are fears that explicit criteria may have a restraining influence on students learning as well as limiting their autonomy and creativity There are also indications of students becoming more performance oriented as opposed to learning oriented when being provided with explicit assessment criteria Taken together it is not fully understood under which circumstances it is productive for student learning to share explicit assessment criteria and under which circumstances it is not In particular empirical research on the proposed negative effects of sharing criteria with learners is limited and most fears voiced in the literature are based on individual experiences and anecdotal evidence In this book we therefore bring different perspectives on transparency in assessment together in order to further our understanding of how students are influenced by the use of explicit assessment criteria A deeper understanding of the influence of explicit assessment criteria on students understanding of criteria motivation and learning is equally imperative for future research and educational practice both of which need to go beyond individual opinions and convictions Teaching Computing Henry M.

Walker, 2018-04-24 Teaching can be intimidating for beginning faculty Some graduate schools and some computing faculty provide guidance and mentoring but many do not Often a new faculty member is assigned to teach a course with little guidance input or feedback Teaching Computing A Practitioner s Perspective addresses such challenges by providing a solid resource for both new and experienced computing faculty The book serves as a practical easy to use resource covering a wide range of topics in a collection of focused down to earth chapters Based on the authors extensive teaching experience and his teaching oriented columns that span 20 years and informed by computing education research the book provides numerous elements that are designed to connect with teaching practitioners including A wide range of teaching topics and basic elements of teaching including tips and techniques Practical tone the book serves as a down to earth practitioners guide Short focused chapters Coherent and convenient organization Mix of general educational perspectives and computing

specific elements Connections between teaching in general and teaching computing Both historical and contemporary perspectives This book presents practical approaches tips and techniques that provide a strong starting place for new computing faculty and perspectives for reflection by seasoned faculty wishing to freshen their own teaching

Problems and Problem Solving in Chemistry Education Georgios Tsaparlis, 2021 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner

How Colleges Change Adrianna Kezar, 2013-10-01 Higher education is in an unprecedented time of change and reform To address these challenges university leaders tend to focus on specific interventions and programs but ignore the change processes and the contexts that would lead to success Joining theory and practice How Colleges Change unmasks problematic assumptions that change agents typically possess and provides research based principles for approaching change Framed by decades of research this monumental book offers fresh insights into understanding leading and enacting change Recognizing that internal and external conditions shape and frame change processes Kezar presents an overarching practical framework that can be applied to any organizational challenge and context How Colleges Change is a crucial resource for aspiring and practicing campus leaders higher education practitioners scholars faculty and staff who want to learn how to apply change strategies in their own institutions

Mathematics and Science Education International Seminar 2021 (MASEIS 2021) M. Lutfi Firdaus, Aprina Defianti, 2023-03-29 This is an open access book We warmly invite you to participate in Mathematics and Science Education International Seminar that was held on November 13th 2021 in Bengkulu Indonesia Since participants may come from different countries with variety of backgrounds the conference is an excellent forum for participants to exchange research findings and ideas on mathematics and science and to build networks for further collaborations The disruption era is related to the development of the industrial revolution 4 0 and society 5 0 era Industrial revolution 4 0 era is marked by massive digital technology development in all

aspects Digital technology transformation is applied in human life and it is known as human centered society Development of digital technology has been influence some aspects such as education environment and society Using digital technology does not only gives negative impacts but also positive impacts It is important to strengthen sustainable education that has insight into conservation and local wisdom in this era for a better society

Work Integrated Learning-Directions for the Future Krishnamurthy Bindumadhavan,Nelson Lacey,2025-07-28 This book delves into the comprehensive domain of work integrated learning presenting a collection of insights and research on diverse aspects that shape its landscape With a keen focus on international perspectives and innovative approaches this book aims to foster a deeper understanding of the intersection between academia and industry This book presents a comprehensive and forward thinking exploration of work integrated learning blending international perspectives innovative pedagogies digital transformations AI leverage and a focus on the future workforce It involves sharing research findings and innovative ideas as well as discussing challenges and practical solutions in the field of Work Integrated Learning

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