

- According to the Bronsted—Lowry definition, which chemical species can function *both* as an acid and as a base?
  - $\text{Cl}^-$
  - $\text{SO}_4^{2-}$
  - $\text{NH}_4^+$
  - $\text{HCO}_3^-$
  - $\text{H}_2\text{O}^+$
- In the reaction  $\text{CN}^- + \text{H}_2\text{O} \rightleftharpoons \text{HCN} + \text{OH}^-$  which is an acid—base conjugate pair?
  - $\text{H}_2\text{O}$  and  $\text{HCN}$
  - $\text{H}_2\text{O}$  and  $\text{OH}^-$
  - $\text{CN}^-$  and  $\text{H}_2\text{O}$
  - $\text{HCN}$  and  $\text{OH}^-$
- Given that  $\text{HX}$  is a stronger Bronsted acid than  $\text{HY}$  in aqueous solution, which is true of a 1 M solution of  $\text{NaX}$ ?
  - It is less basic than a 1 M solution of  $\text{NaY}$ .
  - It is more basic than a 1 M solution of  $\text{NaY}$ .
  - It yields a neutral solution.
  - It is more concentrated than a 1 M solution of  $\text{NaY}$ .
- The pH of a 0.03 M  $\text{HCl}$  solution is
  - 1.5
  - 2.5
  - 3.5
  - 12.5
- The pH of a  $1.0 \times 10^{-2}$  M  $\text{Ba}(\text{OH})_2$  solution at  $25^\circ\text{C}$  is
  - 2.7
  - 3.0
  - 11.0
  - 11.3
- Which is the strongest acid?
  - $\text{HClO}$
  - $\text{HClO}_2$
  - $\text{HClO}_3$
  - $\text{HClO}_4$
- Which salt reacts with water (hydrolyzes) to produce a basic solution?
  - $\text{NaC}_2\text{H}_3\text{O}_2$
  - $\text{NaNO}_3$
  - $\text{NH}_4\text{Cl}$
  - $\text{BaSO}_4$

- The *weakest* of the bases listed is
 

Acid	Conjugate Base	$K_a$ (Ionization Constant of Acid)
$\text{HCl}$	$\text{Cl}^-$	100% ionized
$\text{HSO}_4^-$	$\text{SO}_4^{2-}$	$1.2 \times 10^{-2}$
$\text{H}_2\text{S}$	$\text{HS}^-$	$5.7 \times 10^{-8}$
$\text{HS}^-$	$\text{S}^{2-}$	$1.2 \times 10^{-13}$

  - $\text{Cl}^-$
  - $\text{CN}^-$
  - $\text{HS}^-$
  - $\text{S}^{2-}$
  - $\text{SO}_4^{2-}$

- The oxide of which element will react with water to form the strongest acid?
 

	Main Groups							
Period	I	II	III	IV	V	VI	VII	O
First								
Second	X	Y	Z	P		Q	S	U
Third	W					R	T	M

  - W
  - M
  - P
  - R
  - Z

- Which statement is a logical inference from the fact that a 0.10 M solution of potassium acetate  $\text{KC}_2\text{H}_3\text{O}_2$  is less alkaline than a 0.10 M solution of potassium cyanide,  $\text{KCN}$ ?
  - Hydrocyanic acid is a weaker acid than acetic acid.
  - Hydrocyanic acid is less soluble in water than acetic acid.
  - Cyanides are less soluble than acetates.
  - Acetic acid is a weaker acid than hydrocyanic acid.
- In the titration of 50.0 mL of 0.100 M benzoic acid (a monoprotic acid) with 50.0 mL of 0.100 M  $\text{NaOH}$ , the properties of the solution at the equivalence point will correspond exactly to the properties of
  - a 0.100 M sodium solution.
  - a 0.0500 M sodium hydroxide solution.
  - a 0.0500 M benzoic acid solution.
  - a 0.0500 M sodium benzoate solution.

# Acs First Semester General Chemistry Exam Practice

**Surjani Wonorahardjo, Sari  
Karmina, Habiddin**



## **Acs First Semester General Chemistry Exam Practice:**

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**Preparing for Your ACS Examination in General Chemistry - the Official Guide** LUCY T. EUBANKS, 2018-10-15 This guide is separated into first term and second term general chemistry material Each section contains 8 chapters of material that also aligns to most general chemistry textbooks for a seamless addition to study materials for students Each chapter is designed with an introductory section of the material including common representations and where to find this material in a textbook The second section provides worked examples of typical multiple choice questions including how the correct answer is determined as well as how the incorrect answers were determined Also included for each study problem is a listing of the corresponding practice questions that use that concept The final section is a series of practice problems to test the concepts collectively The key is provided on a separate page for all study and practice problems      **ACS General Chemistry Study Guide** Joshua Rueda, 2023-04-12 Test Prep Books ACS General Chemistry Study Guide 2 Practice Exams and ACS Test Prep Book 3rd Edition Made by Test Prep Books experts for test takers trying to achieve a great score on the ACS General Chemistry exam This comprehensive study guide includes Quick Overview Find out what's inside this guide Test Taking Strategies Learn the best tips to help overcome your exam Introduction Get a thorough breakdown of what the test is and what's on it Chemistry Reference Sheet Atomic Structure Electronic Structure Formula Calculations and the Mole Stoichiometry Solutions and Aqueous Reactions Heat and Enthalpy Structure and Bonding States of Matter Kinetics

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*Building Synergy for High-Impact Educational Initiatives* Janine Graziano, Lauren Chism Schmidt, 2016-05-17 Published in partnership with the Washington Center for Improving the Quality of Undergraduate Education First year seminars and learning communities are two of the most commonly offered high impact practices on U S campuses The goals of these initiatives are similar helping students make connections to faculty and other students improving academic performance and increasing persistence and graduation As such it is not surprising that many institutions choose to embed first year seminars in learning communities This volume explores the merger of these two high impact practices In particular it offers insight into how institutions connect them and the impact of those combined structures on student learning and success In addition to chapters highlighting strategies for designing teaching in and assessing combined programs case studies offer practical insights into the structures of these programs in a variety of campus settings

*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

**Nuts and Bolts of Chemical Education Research** Diane M. Bunce, Renée S. Cole, 2008 The purpose of this book is to address the key elements of planning chemical education research projects and educational outreach evaluation components of science grants from a pragmatic point of view

*General Catalog -- University of California, Santa Cruz* University of California, Santa Cruz, 1999

**Preparing for Your ACS Examination in General Chemistry** Lucy T. Eubanks, I. Dwaine Eubanks, 1998

**Interdisciplinary Approaches to Distance Teaching** Alan Blackstock, Nathan Straight, 2015-11-19 Synchronous technologies particularly interactive video conferencing IVC are becoming common modes of teaching and delivering college courses The increasing popularity of IVC in the U S and abroad calls for more pedagogically effective practices for instructors using this technology This volume focuses on innovative and proven approaches to IVC teaching in a variety of disciplines English history biology chemistry geology engineering social work and elementary and special education Contributors hail from a pioneering university at the forefront of distance education and understand the practice and potential of IVC teaching at the highest levels Chapters outline the challenges and benefits of IVC teaching from pedagogical technical and administrative perspectives

**ELECTRONIC STRUCTURE AND THE PERIODIC TABLE** STERLING. EDUCATION, 2022 *Catalogue* University of California, Santa Cruz, [Improving Assessment and Evaluation Strategies on Online Learning](#) Surjani Wonorahardjo, Sari Karmina, Habiddin, 2022-06-10 ICLI is an annual International Conference on Learning Innovation ICLI hosted by Universitas

Negeri Malang Indonesia in collaboration with the Islamic Development Bank IsDB and Indonesian Consortium for Learning Innovation Research ICLIR as well as Univerisiti Teknologi MARA Cawangan Perlis Malaysia serving as co organizer this year The conference aims to gather researchers practitioners students experts consultants teachers and lecturers to share their insights and experiences on research not only in constructing innovations in learning but also the knowledge of learner s capability The learners who are characterized as creative and competent by having the ability to understand what they have learned and capable of taking initiative and thinking critically In addition ICLI is organized on the basis of the trend in the 21st century categorized by the increasing complexity of technology and the emergence of a corporate restructuring movement This book is the proceeding of ICLI 2021 containing a selection of articles presented at this conference as the output of the activity Various topics around education are covered in this book and some literature studies around specific topics on learning and education are covered as well This proceeding book will be beneficial to students scholars and practitioners who have a deep concern in education It is also futuristic with a lot of practical insights for students faculty and practitioners and also a description of the Indonesian educational system in today s era

**A Practitioner's Handbook for Institutional Effectiveness and Student Outcomes Assessment Implementation** James Oliver Nichols,1991 ACS  
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