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# ACS Gen Chem 1 Exam

**Ion** - A species of an element in which the number of electrons does not equal the number of protons.

**Isotope** - Each isotope of an atom has a different number of neutrons.

**Isoelectric** - Two atoms with the same charge.

**Isotopic** - Two atoms with the same number of neutrons.

**Transition Metal Orbitals** - The 4s orbital is filled before the 3d orbital, but listed after.

**Paramagnetic** - Atoms that possess a permanent magnetic charge due to the presence of unpaired electrons.

**Electropositive** - Tending to lose electrons and form positive ions.

**Tetrahedral Bond Angle** -  $109.5^\circ$

**Resonance Structures** - Two equally correct arrangements of one molecule's electrons; generally the molecule exists as an average of the two.

**Polar Molecule** - A molecule that is mostly positive on one side and mostly negative on the other.

**$sp^3$  Orbital** - An orbital composed of one s orbital and three p orbitals; can hold eight total electrons. Tetrahedral.

**Trigonal Planar** - The way that three objects will arrange themselves around a central atom. Non-polar.

**Free Radicals** - Compounds with an odd number of electrons in their Lewis Structure. Eg.  $\text{NO}_2$

**Incomplete Octets** - Occur in elements that can form stable bonds with less than eight electrons. Eg.  $\text{BF}_3$

**Expanded Octets** - Occur in the third row of the periodic table and beyond in elements that can form stable bonds with more than eight electrons. Eg.  $\text{XeF}_2$

**Hydrogen Bonding** - When hydrogen is attracted to electronegative atoms.

# Acs General Chemistry Exam Study Guide

**Examinations Institute-American  
Chemical Society Division of Chemical  
Education**



## **Acs General Chemistry Exam Study Guide:**

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

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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

**Diversity, Equity, and Inclusion for Mathematics and Science Education: Cases and Perspectives** Lin, Cheng-Yao,Sun, Li,2025-06-04 Diversity equity and inclusion DEI are critical pillars for transforming mathematics and science education As classrooms diversify the need to address systemic barriers and create inclusive learning environments becomes more urgent Cases on DEI in STEM education highlight the real world challenges and strategies educators face in promoting equitable access to learning opportunities dismantling biases and empowering students from historically marginalized communities Further exploration may reveal powerful teaching tools and catalyze reflective practice and institutional change encouraging educators to critically examine their roles in shaping a more inclusive future in math and science Cases on Diversity Equity and Inclusion for Mathematics and Science Education explores key issues and concepts related to diversity equity and inclusion in mathematics and science classrooms It offers solutions and successful strategies for teaching and learning in mathematics and science This book covers topics such as inclusive classrooms K 12 education pre service teaching and is a useful resource for educators sociologists academicians researchers and scientists

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