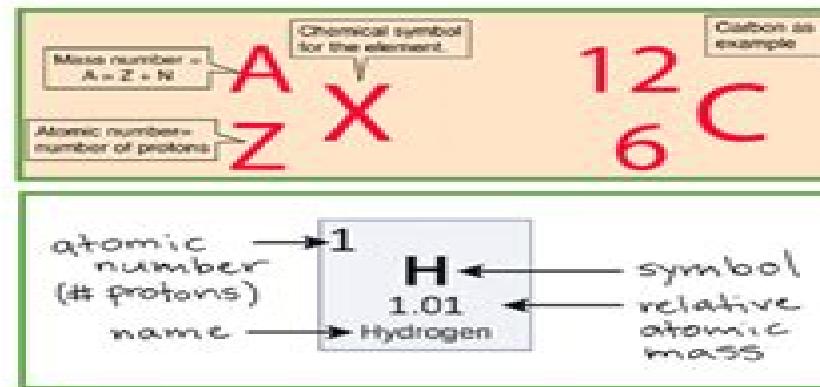


Chapter 1

You should be able to:

- Identify the key steps in the Scientific Method.
 - Step 1: Make observations.
 - Step 2: Formulate a hypothesis.
 - Step 3: Test the hypothesis through experimentation.
 - Step 4: Accept or modify the hypothesis. (develop a model)
 - Step 5: Develop into a law and/or a theory. (conduct further experiments)
- Explain the difference between an atom and an element.
 - Atom:** is the smallest component of an element, containing neutrons, protons and electrons, and makes up everything around us.
 - Element:** is a substance in which all of the atoms have the same atomic (proton) number. It is also defined as a substance which cannot be broken down by chemical means
- Describe the subatomic particles (protons, neutrons and electrons) and their location in the nuclear model of the atom.
 - Electron:** A negatively charged subatomic particle found outside the nucleus of all atoms.
 - Neutrons:** An electrically neutral with a mass & diameter slightly greater than that of a proton located in the nucleus.
 - Proton:** A positively charged particle in the nucleus of an atom.
- Identify an element by its atomic number and chemical symbol.



- Write the full atomic symbol for any neutral atom or ion.

Best Chem 101 Study Guide

Scott C. Dulebohn

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The Best Chemistry Tutoring Book & eBook! Adam Gottlieb, **Organic Chemistry Principles and Industrial Practice** Mark M. Green, Harold A. Wittcoff, 2003-09-19 Nylon plexiglas epoxy resin and Elmer's glue dynamite rubber tires and spandex These are a few among the multitude of industrial products produced using the principles of organic chemistry principles that are often taught to students without reference to the commercial and practical importance of the subject The marvelous theoretical principles on which organic chemistry is based are therefore often not fully appreciated by students of this subject Organic chemistry can appear dry meaningless and seemingly irrelevant In this textbook designed to be used in conjunction with classic texts of organic chemistry at the undergraduate level or standing alone for more advanced students two experts M M Green and H A Wittcoff bring the principles and the practice together Written for students and also giving much information that could be used to enhance teaching of the subject the book presented in ten concise chapters combines important industrial processes with the principles of organic chemistry The result is a source of otherwise barely accessible information In addition personal anecdotes from the authors vast experience make this a fascinating and indispensable textbook for everyone wishing to enhance the appreciation of this subject I have never come across such an enticing mix of stories of discovery with basic chemistry Roald Hoffmann Cornell University Simply put this book is a gem The chemistry described is rigorous but the warm humorous and conversational writing style makes the book a joy to read Dasan M Thamattoor Colby College This is a unique fascinating book that bridges organic chemistry principles with chemical industrial applications The story telling style make the reading learning experience extremely enjoyable Qiao Sheng Hu College of Staten Island City University of New York **A Pocket Guide to Online Teaching** Aaron S. Richmond, Regan A. R. Gurung, Guy Boysen, 2021-03-08 This pithy yet thorough book provides an evidence based guide on how to prepare for online teaching especially for those who are making a swift transition from face to face to online instruction Guided by the Model Teaching Characteristics created by The Society for the Teaching of Psychology this book covers important topics like how to adapt to expected and unexpected changes in teaching how to evaluate yourself and your peers and tips on working smarter optimizing working practices with the resources available The features of the book include Practical examples exploring how to solve the typical problems of designing and instructing online courses Interactive Worked Examples and Working Smarter callouts throughout the book which offer practical demonstrations to help teachers learn new skills Further reading and resources to build on knowledge about online education End of chapter checklists which summarizes suggestions about how to be a model online teacher This essential resource will provide support for teachers of all levels and disciplines from novice to the most experienced during the transition to online teaching Catalog of Copyright Entries, Third Series Library of Congress, Copyright Office, 1957 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December The Advisor, Teacher-course Evaluation, 1970-71 University of

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