

Chemistry Unit 3

Study Guide

Chemical Nomenclature

Chemical formula

- a. a way of presenting information about the chemical proportions of atoms that constitute a particular chemical compound or molecule, using chemical element symbols, numbers, and sometimes also other symbols

Subscript

- a. A subscript or superscript is a character that is set slightly below or above the normal line of type, respectively. It is usually smaller than the rest of the text. Subscripts appear at or below the baseline, while superscripts are above.

Ion

- a. Ion, any atom or group of atoms that bears one or more positive or negative electrical charges.

Anion

- a. a negatively charged ion

Cation

- a. A positively charged ion

Polyatomic ion

- a. The prefix poly- means many, so a polyatomic ion is an ion that contains more than one atom.

Understand the use of Roman Numerals in ionic compounds

- a. Roman numerals are used in naming ionic compounds when the metal cation forms more than one ion.

List the diatomic molecules

- a. Hydrogen (H_2)
- b. Nitrogen (N_2)
- c. Oxygen (O_2)
- d. Fluorine (F_2)
- e. Chlorine (Cl_2)
- f. Iodine (I_2)
- g. Bromine (Br_2)

Be able to name and write chemical formulas for ionic, covalent, and acidic compounds

- Properly use prefixes
- Properly use Roman Numerals
- Properly use endings (-ide, -ate, -ite, -ous, -ic)

Determine the type of compound made from a pair of elements or polyatomic ions

Identify the ionic charge of transition metals in compounds

- a. Because most transition metals have two valence electrons, the charge of $2+$ is a very common one for their ions.

Identify compounds as ionic, covalent, or acidic

- a. Compounds containing two elements (so called binary compounds) can either have ionic or covalent bonding. If a compound is made from a metal and a nonmetal, its bonding will be ionic. If a compound is made from two non-metals, its bonding will be covalent.

Chemistry Unit Study Guide

J Rink



Chemistry Unit Study Guide:

PSI Study Guide for Organic Chemistry by Douglas C. Neckers, Michael P. Doyle E. C. Blossey, 1977 Ccea as Chemistry Student Unit Guide Alyn McFarland, 2012 Written by a senior examiner Alyn G McFarland this CCEA AS Chemistry Student Unit Guide is the essential study companion for Unit 1 Basic Concepts in Physical and Inorganic Chemistry This full colour book includes all you need to know to prepare for your unit exam a clear guidance on the content of the unit with topic summaries knowledge check questions and a quick reference index a examiner's advice throughout so you will know what to expect in the exam and will be able to demonstrate the skills required a exam style questions with graded student responses so you can see clearly what is required to get a better grade **Resources in Education** , 1984

Study Guide and Solutions Manual for McMurry's Organic Chemistry, Fifth Edition Susan McMurry, 2000 Provides answers and explanations to all in text and end of chapter exercises Also includes summaries of name reactions functional group synthesis and reactions lists of reagents and abbreviations and articles on topics ranging from infrared absorption frequencies to the Nobel Prize winners in Chemistry This edition now includes all new artwork expanded in text problems summary quizzes approximately every three chapters more detailed explanations in solutions and chapter outlines

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United States Catalog Mary Burnham, Carol Hurd, 1928 **The Indiana Teacher**, 1936 Study Guide & Solutions Manual to Accompany Organic Chemistry, Third Edition G. Marc Loudon, Joseph G. Stowell, 1995 *NES Chemistry Study Guide*

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Chemists' Guide to Effective Teaching Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 Part of the Prentice Hall Series in Educational Innovation for Chemistry this unique book is a collection of information examples and references on learning theory teaching methods and pedagogical issues related to teaching chemistry to college students In the last several years there has been considerable activity and research in chemical education and the materials in this book integrate the latest developments in chemistry Each chapter is written by a chemist who has some expertise in the specific

technique discussed has done some research on the technique and has applied the technique in a chemistry course

Programmed Learning and Individually Paced Instruction Carl H. Hendershot, 1973 Chemical News and Journal of Industrial Science, 1921 Chemical News and Journal of Physical Science, 1909

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