

CHAPTER 7**STUDY GUIDE****Ionic Compounds and Metals****Section 7.1 Ion Formation**

In your textbook, read about chemical bonds and formation of ions.

Use each of the terms below just once to complete the passage.

chemical bond	electrons	energy level	ions	noble gases
nucleus	octet	pseudo-noble gas formations	valence	

The force that holds two atoms together is called a(n) (1) _____.

Such an attachment may form by the attraction of the positively charged

(2) _____ of one atom for the negatively charged

(3) _____ of another atom, or by the attraction of charged atoms, which are called

(4) _____. The attractions may also involve

(5) _____ electrons, which are the electrons in the outermost

(6) _____. The (7) _____ are a family of elements that have very

little tendency to react. Most of these elements have a set of eight outermost electrons, which is called a

stable (8) _____. The relatively stable electron structures developed by loss of

electrons in certain elements of groups 3, 4, 13, and 14 are called (9) _____.

For each statement below, write *true* or *false*.

10. A positively charged ion is called an anion.
11. Elements in group 1 lose their one valence electron, forming an ion with a 1+ charge.
12. Elements tend to react so that they acquire the electron structure of a halogen.
13. A sodium atom tends to lose one electron when it reacts.
14. The electron structure of a zinc ion (Zn^{2+}) is an example of a pseudo-noble gas formation.
15. A Cl^- ion is an example of a cation.
16. The ending *-ide* is used to designate an anion.
17. Nonmetals form a stable outer electron configuration by losing electrons and becoming anions.

Study Guide Ionic Compounds Metals Answers

Becker, Benjamin L. Carroll

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Science Mastermind Class 10 : A Comprehensive Study Guide with Diagrams and Practice Exercise's Gaurav Sinha,2025-04-04 This book is helpful for class 10 cbse science students [A Self-study Guide to the Principles of Organic Chemistry](#) Jiben Roy,2013 A Self Study Guide to the Principles of Organic Chemistry Key Concepts Reaction Mechanisms and Practice Questions for the Beginner will help students new to organic chemistry grasp the key concepts of the subject quickly and easily as well as build a strong foundation for future study Starting with the definition of atom the author explains molecules electronic configuration bonding hydrocarbons polar reaction mechanisms stereochemistry reaction varieties organic spectroscopy aromaticity and aromatic reactions biomolecules organic polymers and a synthetic approach to organic compounds The over one hundred diagrams and charts contained in this volume will help students visualize the structures and bonds as they read the text and make the logic of organic chemistry clear and easily understood Each chapter ends with a list of frequently asked questions and answers followed by additional practice problems Answers are included in the Appendix *Study Guide with Answers to Selected Problems* H. Stephen Stoker,Danny V. White,2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter exercises **Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual** Leo J. Malone,Theodore O. Dolter,2012-01-03 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter **Chemistry, Student Study Guide** James E. Brady,Fred Senese,2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH₄ from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows

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