

## Chemistry - Chapter 7 Study Guide

### Section 7.1:

- *Valence electrons* – electrons in the outer energy level
  - responsible for bonding with other atoms
- How do you know how many valence electrons an element has?
  - Look at the group number
    - Group 1A = 1 valence electron
    - Group 7A = 7 valence electrons
    - Etc...
- *Electron Dot Diagrams* – a way of showing and keeping track of valence electrons
  - Written using the following steps:
    1. Write the element symbol – representing the nucleus and inner electrons
    2. Put one dot for each valence electrons,
    3. Don't forget to add them using Hund's rule – they don't pair up unless they have to.
- *The Octet Rule* – atoms tend to want to achieve a noble gas configuration because it is the most stable. Octet = eight electrons
- *Cations* – a positive ion (usually metals)
  - Lose electrons to attain a noble gas configuration
  - Written like  $\text{Na}^{1+}$
  - No dots are shown (on an electron dot diagram) because they lose the valence electrons they had
- *Anions* – a negative ion (usually non-metals)
  - Gain electrons to attain a noble gas configuration
  - Written like  $\text{P}^{3-}$
  - Dots are shown because valence electrons are gained
- 8 valence electrons = stable atom (noble gases.)

### Section 7.2:

- Anions (-) and cations (+) are held together by opposite charges; a bond is formed through the transfer of electrons to achieve a noble gas configuration (octet.)
- *Ionic Compounds:*
  - Also called salts
  - Made from a cation and an anion
    - Which means they're made of a metal and a non-metal
- **\*if you don't understand how to do ionic bonding, check the book or ask somebody to help... it's hard to explain\***
- The result of ionic bonding is an ionic compound, shown in a *formula unit*
  - Written like  $\text{Ca}_3\text{P}_2$

# Chemistry Chapter 7 Study Guide For Content Mastery Answers

**Francis A. Carey**



## **Chemistry Chapter 7 Study Guide For Content Mastery Answers:**

Chemistry McGraw-Hill Staff,2001-07 For All Practical Purposes Consortium for Mathematics and Its Applications (U.S.),2003 The sixth edition of the acclaimed classroom favorite offer a number of new features to help instructors strengthen the mathematical literacy of their students Organic Chemistry Francis A. Carey,2000 A Market Leading Traditional Approach to Organic Chemistry Throughout all seven editions Organic Chemistry has been designed to meet the needs of the mainstream two semester undergraduate organic chemistry course This best selling text gives students a solid understanding of organic chemistry by stressing how fundamental reaction mechanisms function and reactions occur With the addition of handwritten solutions new cutting edge molecular illustrations updated spectroscopy coverage seamless integration of molecular modeling exercises and state of the art multimedia tools the 7th edition of Organic Chemistry clearly offers the most up to date approach to the study of organic chemistry *Prentice Hall Chemistry* ,2000 **Chemistry** William L. Masterton,1996-08 This new edition of CHEMISTRY PRINCIPLES AND REACTIONS continues to provide students with the core material essential to understanding the principles of general chemistry Masterton and Hurley cover the basics without sacrificing the essentials appealing to several markets Appropriate for either a one or two semester course CHEMISTRY PRINCIPLES AND REACTIONS Fifth Edition is three hundred pages shorter than most general chemistry texts and lives up to its long standing reputation as THE student oriented text Though this text is shorter in length than most other General Chemistry books it is not lower in level and with the addition of the large volume of content provided by the revolutionary GENERAL CHEMISTRY INTERACTIVE 3 0 CD ROM that is included with every copy it has a depth and breadth rivaling much longer books *DAT* Aftab S. Hassan,1999 At Lippincott Williams and Wilkins out objective is to help busy students and actual practitioners prepare for the wide array of exams required in the health sciences Our authors and editors are skilled question writers and all our products provide the practice material that students require That s why all of our review series products the top preparatory guides formerly known as the BETZ Guides NMS BRS Recall and High Yield are the first choices of students at schools throughout the country At Lippincott Williams and Wilkins we want to help you master the science of review Resources in Education ,1988 *Merrill Chemistry* Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998 *Chemistry of Matter* ,1993 As the reader read s this textbook he will learn about the interactions of matter that can occur in a test tube in nature and even inside himself P 9 *Teaching Reading to Every Child* Diane Lapp,James Flood,Cynthia H. Brock,Douglas Fisher,2013-06-17 This popular text now in its Fourth Edition introduces pre service and in service teachers to the most current theories and methods for teaching literacy to children in elementary schools The methods presented are based on scientific findings that have been tested in many classrooms A wealth of examples hands on activities and classroom vignettes including lesson plans assessments lists of children s literature books to fiction and nonfiction texts and more illustrate the methods and bring them to life The text highlights the importance of teaching EVERY

child to become competent in all of the nuances and complexities of reading writing and speaking The value of reflection and peer discussion in learning to expand their students literacies is emphasized Readers are encouraged to reflect on their own experiences with reading and teaching throughout their lifetimes experiences that will serve well in learning to teach reading Your Turn boxes invite readers to think about their views of the material presented and to talk with colleagues and teachers about their best ways of learning this new information Did You Notice boxes engage readers in observation and analysis of methods and classroom situations discussed in the text Teachers stories serve as models of successful teaching and to draw readers into professional dialogue about the ideas and questions raised End of chapter questions and activities provide additional opportunities for reflection and discussion All of these pedagogical features help readers expand and refine their knowledge in the most positive ways Topics covered in Teaching Reading to Every Child Fourth Edition Getting to Know Your Students as Literacy Learners Looking Inside Classrooms Organizing Instruction Assessing Reading Achievement The Importance of Oral Language in Developing Literacy Word Identification Strategies Pathways to Comprehension Vocabulary Development Comprehension Instruction Strategies At Work Content Area Learning What the Teacher Needs to Know to Enable Students Text Comprehension Writing Teaching Students to Encode and Compose Discovering the World Through Literature Technology and Media in Reading Teaching Reading to Students Who Are Learning English All Students are Special Some Need Supplemental Supports and Services to Be Successful and Historical Perspectives on Reading and Reading Instruction New in the Fourth Edition A new chapter on technology with state of the art applications A new chapter with the most up to date information on how vocabulary is learned and on how it is best taught responding to the national renewed interest in vocabulary instruction A new section on Readers Writer s workshop with a focus on supporting student inquiry and exploration of multiple genres A more comprehensive chapter on literature instruction and the role of literature in the reading program with examples that support students multigenre responses A discussion of literary theories with examples for classroom implementation Broader coverage of the phases of reading development from the pre alphabetic stage to the full alphabetic stage A more inclusive chapter on writing instruction and A thoroughly revised chapter on teaching reading to students who are learning English including extensive information on assessment and evaluation

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