

CHAPTER 6 REVIEW*Chemical Bonding***MIXED REVIEW**

SHORT ANSWER Answer the following questions in the space provided.

1. Name the type of energy that is a measure of strength for each of the following types of bonds:

_____ lattice energy _____	a. ionic bond
_____ bond energy _____	b. covalent bond
_____ enthalpy of vaporization _____	c. metallic bond

2. Use the electronegativity values shown in **Figure 20**, on page 161 of the text, to determine whether each of the following bonds is nonpolar covalent, polar covalent, or ionic.

_____ ionic _____	a. H—F	_____ nonpolar covalent _____	d. H—H
_____ ionic _____	b. Na—Cl	_____ polar covalent _____	e. H—C
_____ polar covalent _____	c. H—O	_____ polar covalent _____	f. H—N

3. How is a hydrogen bond different from an ionic or covalent bond?

A hydrogen bond is a dipole-dipole attraction between a partially positive hydrogen
atom and the unshared electron pair of a strongly electronegative atom such as O,
N, or F. Unlike ionic or covalent bonds, in which electrons are given up or shared,
the hydrogen bond is a weaker attraction. Hydrogen bonds are generally
intermolecular, while ionic and covalent bonds occur between ions or atoms
respectively.

4. H₂S and H₂O have similar structures and their central atoms belong to the same group. Yet H₂S is a gas at room temperature and H₂O is a liquid. Use bonding principles to explain why this is.

Oxygen has higher electronegativity than sulfur, which creates a highly polar bond.
Increased polarity in H₂O bonds means a stronger intermolecular attraction, making
water a liquid at room temperature. Hydrogen bonding exists between water
molecules, but not between hydrogen sulfide molecules.

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Henry Sinclair Pickering



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Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information

Chemistry - The Central Science James C. Hill, Bruce Edward Bursten, 2006 Chemistry The Central Science is the most trusted book on the market its scientific accuracy clarity innovative pedagogy functional problem solving and visuals set this book apart Brown LeMay and Bursten teach students the concepts and skills they need without overcomplicating the subject A comprehensive media package that works in tandem with the text helps students practice and learn while providing instructors the tools they need to succeed Publisher's description

Biology Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece's BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter

Essentials of Anatomy and Physiology Charles M. Seiger, 2002-09 Designed to help students master the topics and concepts covered in the textbook the study guide includes a variety of review questions including labeling concept mapping and crossword puzzles that promote an understanding of body systems It is keyed to each chapter's learning objectives and parallels the three level learning system in the textbook

Biology Joseph S. Levine, Kenneth R. Miller, 1998

Essential Environment Jay Withgott, Scott R. Brennan, 2007 The Science Behind the Stories retains all the popular features of the landmark first edition including its integrated central case study approach and focus on the scientific process current data and critical thinking in a brief 15 chapter text The Second Edition features a new chapter on ecology with expanded coverage of community ecology and

biomes New end of chapter activities and interactive exercises on the Environmental Place Website help students hone the skills they need to make informed decisions on environmental issues Calculating Ecological Footprint activities at the end of each chapter give students practice in applying individual decisions to larger scales The Investigate It interactive map on the website provides more than 120 additional case studies You Decide web activities help students learn how to analyze data on global warming and conservation Subject Guide to Books in Print ,1983 *Introductory Chemistry* Nivaldo J. Tro,2006
 The Covalent Bond Henry Sinclair Pickering,1977

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