

## BUILD Vocabulary

**ionic bond** chemical bond formed when one or more electrons are transferred from one atom to another

**ion** atom that has a positive or negative charge

**covalent bond** type of bond between atoms in which the electrons are shared

**molecule** smallest unit of most compounds that displays all the properties of that compound

**van der Waals forces** weak attraction that develops between oppositely charged regions of nearby molecules

**Preface** The prefix *co-* and *co-* mean “together.” A compound is made up of elements joined together, and a covalent bond connects atoms that share electrons together. **How are covalent bonds different from ionic bonds?**

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## Chemical Bonds

**KEY QUESTION** What are the main types of chemical bonds?

The atoms in compounds are held together by chemical bonds. Bonds are formed by the electrons in the outer shell, which are called valence electrons. The main types of chemical bonds are ionic bonds and covalent bonds.

**Ionic Bonds** **Ionic bonds** are formed when one or more electrons are transferred from one atom to another. This transfer causes the atom losing the electrons to become positively charged. The atom gaining the electrons becomes negatively charged. The positively and negatively charged atoms become **ions**. The oppositely charged ions are attracted to each other and form an ionic bond.

**Covalent Bonds** Sometimes atoms share electrons rather than transferring them. These shared electrons move around the nuclei of both atoms. The bond formed by sharing electrons is called a **covalent bond**. Atoms can share between two and six electrons. The structure that results is known as a **molecule**. A molecule is the smallest unit of most compounds.

**Weak Interactions** The strongest chemical bonds are ionic or covalent. Weak interactions between atoms are also important. Within living organisms, many molecules interact only briefly. **Van der Waals forces** are one type of weak interaction between molecules. They occur when molecules are very close together.

Hydrogen bonds are another type of weak interaction. They occur between a hydrogen atom of one molecule and an oxygen or nitrogen atom of a neighboring molecule.

### Visual Reading Skill Covalent Bonds

1. What kind of chemical bond holds the water molecule together? \_\_\_\_\_
2. What particles are shared between the atoms in the molecule? \_\_\_\_\_
3. What is the other main type of chemical bond? \_\_\_\_\_
4. What is the difference between covalent and ionic bonds? \_\_\_\_\_



Water molecule ( $H_2O$ )

## Properties of Water

**READING TOOL** Cause and Effect As you read the part of the lesson under “The Water Molecule,” use the table below to list the causes and effects of the properties of water. Many of the causes may be the same, but each characteristic will have a different effect. Part of the table is completed for you.

Characteristic of Water	Cause	Effect
Hydrogen Bonding		The slightly negative end of a water molecule is attracted to the slightly positive end of another water molecule.
Expands Upon Freezing		
Dissolves Many Substances	Water forms hydrogen bonds.	
Cohesion		
Adhesion		
Heat Capacity		

# Miller Levine Biology Workbook A Answer Key

**R R Bowker Publishing**



## **Miller Levine Biology Workbook A Answer Key:**

ENC Focus ,2003      **Miller & Levine Biology** ,2010      **Mathematics and Science for Students with Special Needs** Eisenhower National Clearinghouse for Mathematics and Science Education,2003      *Miller Levine Biology Reading and Study Workbook a 2008c* Prentice HALL,2006-08-01 Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts of biology New BIG IDEAs help all students focus on the most important concepts Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Now with Success Tracker tm online teachers can choose from a variety of diagnostic and benchmark tests to gauge student comprehension Targeted remediation is available too Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level With unparalleled reading support resources to reach every student and a proven research based approach authors Kenneth Miller and Joseph Levine continue to set the standard Prentice Hall Biology delivers Clear accessible writing Up to date content A student friendly approach A powerful framework for connecting key concepts      *El-Hi Textbooks and Serials in Print, 1995* R R Bowker Publishing,1995-02      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1965 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December      **Miller Levine Biology 2010 Study Workbook B Student Edition** Kenneth Raymond Miller,Miller,Joseph S. Levine,Prentice-Hall, Inc,Pearson Education, Inc,2009-01 A Multilingual glossary can help introduce critical academic vocabulary to learners of any age in their native language opening up a whole new world of understanding      **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office,1964      Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1965      **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office,1965      *Children's Books in Print, 2007* ,2006      **Miller and Levine Biology** Prentice Hall (School Division),      *Books In Print 2004-2005* Ed Bowker Staff,Staff Bowker, Ed,2004      **Biology Adapted Reading and Study Workbook B 2008c** Miller,Prentice HALL,2006-08-01 Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts of biology New BIG IDEAs help all students focus on the most important concepts Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Now with Success Tracker tm online teachers can choose from a variety of diagnostic and benchmark tests to gauge student comprehension Targeted remediation is available too Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level With unparalleled reading support resources to reach every student and a proven research based approach authors Kenneth

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