

Name key

## Physical Science Chemical Bonding Study Guide

### A. Covalent & Ionic Compounds/Bonds

1. When an atom loses an electron it becomes a positive ion (cation), and when it gains an electron it becomes a negative ion (anion).
2. An element in the halogen group has 7 valence electrons, and wants to gain 1 more to have 8. This is because of the octet rule.
3. An ionic bond is the attraction between oppositely charged ions, AKA a metal and a nonmetal.
4. In a covalent bond, atoms share electrons, whereas in an ionic bond, atoms transfer electrons.
5. (Honors only) When electrons are shared unequally in a covalent bond it is polar, and when they're shared equally it is nonpolar. You can predict if a compound is ionic, polar covalent or nonpolar covalent by subtracting the electronegativities.
6. An atom can have up to 8 valence electrons. The family (column) on the periodic table that all have 8 valence electrons is called noble gases.
7. Atoms can gain, lose, or share valence electrons to become more stable.

### B. Formulas for Ionic compounds - Fill in the chart below

	Magnesium	Fluorine	Nitrogen	Lithium
# OF VALENCE ELECTRONS	<u>2</u>	<u>7</u>	<u>5</u>	<u>1</u>
OXIDATION #	<u>+2</u>	<u>-1</u>	<u>-3</u>	<u>+1</u>

2. What is the **chemical formula** for each of the following ionic compounds?  
(*hint: you can either draw the Lewis structures and use arrows to show the transfer of electrons, OR use the periodic table to find their oxidation numbers. They will combine so that their oxidation numbers cancel out to zero. Use the criss cross method if their oxidation numbers do not cancel.*)

- a) Potassium and Chlorine - KCl
- b) Calcium and Bromine - CaBr<sub>2</sub>
- c) Magnesium and oxygen - MgO

# Physical Science Chemical Bonding Study Guide Answers

**Jiyuan Zhang**



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## **Table of Contents Physical Science Chemical Bonding Study Guide Answers**

1. Understanding the eBook Physical Science Chemical Bonding Study Guide Answers
  - The Rise of Digital Reading Physical Science Chemical Bonding Study Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Chemical Bonding Study Guide Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Science Chemical Bonding Study Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Chemical Bonding Study Guide Answers
  - Personalized Recommendations
  - Physical Science Chemical Bonding Study Guide Answers User Reviews and Ratings
  - Physical Science Chemical Bonding Study Guide Answers and Bestseller Lists

5. Accessing Physical Science Chemical Bonding Study Guide Answers Free and Paid eBooks
  - Physical Science Chemical Bonding Study Guide Answers Public Domain eBooks
  - Physical Science Chemical Bonding Study Guide Answers eBook Subscription Services
  - Physical Science Chemical Bonding Study Guide Answers Budget-Friendly Options
6. Navigating Physical Science Chemical Bonding Study Guide Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Chemical Bonding Study Guide Answers Compatibility with Devices
  - Physical Science Chemical Bonding Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Chemical Bonding Study Guide Answers
  - Highlighting and Note-Taking Physical Science Chemical Bonding Study Guide Answers
  - Interactive Elements Physical Science Chemical Bonding Study Guide Answers
8. Staying Engaged with Physical Science Chemical Bonding Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Chemical Bonding Study Guide Answers
9. Balancing eBooks and Physical Books Physical Science Chemical Bonding Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Chemical Bonding Study Guide Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Chemical Bonding Study Guide Answers
  - Setting Reading Goals Physical Science Chemical Bonding Study Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Chemical Bonding Study Guide Answers
  - Fact-Checking eBook Content of Physical Science Chemical Bonding Study Guide Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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