

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 - CaBr₂
- c) Magnesium and oxygen - MgO

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Albert A Gayle



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Table of Contents Physical Science Chemical Bonds Study Guide

1. Understanding the eBook Physical Science Chemical Bonds Study Guide
 - The Rise of Digital Reading Physical Science Chemical Bonds Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Chemical Bonds Study Guide
 - 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 Bonds Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Chemical Bonds Study Guide

- Personalized Recommendations
 - Physical Science Chemical Bonds Study Guide User Reviews and Ratings
 - Physical Science Chemical Bonds Study Guide and Bestseller Lists
5. Accessing Physical Science Chemical Bonds Study Guide Free and Paid eBooks
 - Physical Science Chemical Bonds Study Guide Public Domain eBooks
 - Physical Science Chemical Bonds Study Guide eBook Subscription Services
 - Physical Science Chemical Bonds Study Guide Budget-Friendly Options
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 - Physical Science Chemical Bonds Study Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Chemical Bonds Study Guide
 - Highlighting and Note-Taking Physical Science Chemical Bonds Study Guide
 - Interactive Elements Physical Science Chemical Bonds Study Guide
 8. Staying Engaged with Physical Science Chemical Bonds Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Chemical Bonds Study Guide
 9. Balancing eBooks and Physical Books Physical Science Chemical Bonds Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Chemical Bonds Study Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science Chemical Bonds Study Guide
 - Setting Reading Goals Physical Science Chemical Bonds Study Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science Chemical Bonds Study Guide

- Fact-Checking eBook Content of Physical Science Chemical Bonds Study Guide
- 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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