

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 Bonds Study Guide

**Michael Brown**



## **Physical Science Chemical Bonds Study Guide:**

The book delves into Physical Science Chemical Bonds Study Guide. Physical Science Chemical Bonds Study Guide is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Chemical Bonds Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Physical Science Chemical Bonds Study Guide
    - Chapter 2: Essential Elements of Physical Science Chemical Bonds Study Guide
    - Chapter 3: Physical Science Chemical Bonds Study Guide in Everyday Life
    - Chapter 4: Physical Science Chemical Bonds Study Guide in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Physical Science Chemical Bonds Study Guide. This chapter will explore what Physical Science Chemical Bonds Study Guide is, why Physical Science Chemical Bonds Study Guide is vital, and how to effectively learn about Physical Science Chemical Bonds Study Guide.
  3. In chapter 2, the author will delve into the foundational concepts of Physical Science Chemical Bonds Study Guide. This chapter will elucidate the essential principles that must be understood to grasp Physical Science Chemical Bonds Study Guide in its entirety.
  4. In chapter 3, this book will examine the practical applications of Physical Science Chemical Bonds Study Guide in daily life. The third chapter will showcase real-world examples of how Physical Science Chemical Bonds Study Guide can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Physical Science Chemical Bonds Study Guide in specific contexts. This chapter will explore how Physical Science Chemical Bonds Study Guide is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Physical Science Chemical Bonds Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Chemical Bonds Study Guide.

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