

# Bonding and Reactions

## Study Guide

### 10 pages including KEY

#### Chemical Bonding and Reactions Study Guide

This study guide will help you study for the Chemical Bonding and Reactions exam. By completing the study guide, you will be able to identify the concepts that are most important for this exam. This can help you focus your study time on the areas that you need the most practice with.

##### VOCABULARY

Atom	Molecule	Element	Nonpolar covalent bond
Electron	Covalent bond	Periodic table	Polar covalent bond
Proton	Hydrogen bond	Electron dot notation	Ion bond
Nucleus	Electrostatic attraction	Octet rule	Hydrogen bond
Neutron	Electrostatic repulsion	Resonance structures	Hydrogen bonding

##### DEFINITIONS

1. What is an element? An element is a substance that contains only one type of atom.
2. What is a molecule? A molecule is a group of atoms that are held together by covalent bonds.
3. What is an atom? An atom is the smallest particle of an element that still retains its properties.
4. What is a nonpolar bond? A nonpolar bond is a covalent bond between two atoms that have similar electronegativity values.
5. What is a polar bond? A polar bond is a covalent bond between two atoms that have different electronegativity values.
6. What is an ionic bond? An ionic bond is a bond formed by the transfer of electrons between two atoms.
7. What is a hydrogen bond? A hydrogen bond is a weak interaction between a hydrogen atom and an oxygen atom.
8. Why do atoms share electrons with other atoms? Atoms share electrons with other atoms because it allows them to attain a stable electron configuration.
9. What is an isotope? An isotope is an atom that has a different number of neutrons than the standard form of that element.
10. How many types of isotopes are there? There are three types of isotopes: radioactive isotopes, stable isotopes, and tritium isotopes.
11. What is a resonance hybrid? A resonance hybrid is a molecule that has two or more different electron arrangements that are in equilibrium with each other.
12. What is a hydrogen bond? A hydrogen bond is a weak interaction between a hydrogen atom and an oxygen atom.
13. How many types of hydrogen bonds are there? There are three types of hydrogen bonds: intermolecular, intramolecular, and hydrogen bonding.
14. What is a cation? A cation is a positively charged ion.
15. What is an anion? An anion is a negatively charged ion.
16. What is a polyatomic ion? A polyatomic ion is a group of atoms that act as a single entity with a negative or positive charge.
17. What is a coordinate covalent bond? A coordinate covalent bond is a bond formed by the sharing of electrons between two atoms that are both partially negatively charged.
18. What is a polar molecule? A polar molecule is a molecule that has a net dipole moment.
19. What is a nonpolar molecule? A nonpolar molecule is a molecule that does not have a net dipole moment.

#### Bonding and Chemical Reactions - KEY

##### REVIEW QUESTIONS

1. What is an element? An element is a substance that contains only one type of atom.
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##### TEST QUESTIONS

1. Which is an example of a nonpolar molecule? A)  $\text{H}_2\text{O}$  B)  $\text{NH}_3$  C)  $\text{CH}_4$  D)  $\text{H}_2$
2. Which is an example of a polar molecule? A)  $\text{H}_2\text{O}$  B)  $\text{NH}_3$  C)  $\text{CH}_4$  D)  $\text{H}_2$
3. Which is an example of an ionic bond? A)  $\text{H}_2\text{O}$  B)  $\text{NH}_3$  C)  $\text{CH}_4$  D)  $\text{NaCl}$
4. Which is an example of a hydrogen bond? A)  $\text{H}_2\text{O}$  B)  $\text{NH}_3$  C)  $\text{CH}_4$  D)  $\text{H}_2$
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# Physical Science Bonding And Chemical Reactions Test

**LM Reder**

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The book delves into Physical Science Bonding And Chemical Reactions Test. Physical Science Bonding And Chemical Reactions Test is an essential 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 Bonding And Chemical Reactions Test, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Physical Science Bonding And Chemical Reactions Test
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- Chapter 4: Physical Science Bonding And Chemical Reactions Test in Specific Contexts
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