



CHEMICAL BONDS



IONIC, COVALENT, & METALLIC

FORMS OF CHEMICAL BONDS
Bonding: combination of atoms

Atoms combine to form molecules or compounds by sharing or transferring electrons. This process is called bonding. The resulting molecule or compound has properties different from the individual atoms.

Types of Bonds:

- Covalent Bond:** Formed by sharing electrons between two atoms. Example: H_2 , H_2O , CO_2 .
- Ionic Bond:** Formed by the transfer of electrons from one atom to another, resulting in oppositely charged ions that attract each other. Example: $NaCl$, MgO .
- Metallic Bond:** Formed by the attraction between positive metal ions and a sea of delocalized electrons. Example: Fe , Cu , Al .

Covalent, Ionic, and Metallic Bonding

Covalent bonding occurs when two atoms share one or more pairs of electrons. This results in a stable molecule. Ionic bonding occurs when one atom transfers an electron to another atom, creating oppositely charged ions that attract each other. Metallic bonding occurs when metal atoms release their valence electrons into a common pool, creating a sea of delocalized electrons that hold the metal ions together.

Science Real

Diagram of Ionic Bonding: Shows a sodium atom (Na) with one valence electron and a chlorine atom (Cl) with seven valence electrons. The sodium atom transfers its electron to the chlorine atom, forming a sodium ion (Na^+) and a chloride ion (Cl^-). The resulting ionic bond is shown as a dashed line between the two ions.

Diagram of Covalent Bonding: Shows two hydrogen atoms (H) each with one valence electron. They share their electrons to form a covalent bond, resulting in a hydrogen molecule (H_2).

Diagram of Metallic Bonding: Shows a lattice of positive metal ions surrounded by a sea of delocalized electrons.

Diagram of Bond Types: Shows single, double, and triple covalent bonds. Single bonds are represented by one line, double bonds by two lines, and triple bonds by three lines.

Diagram of Bond Strength: Shows that triple bonds are the strongest, followed by double bonds, and then single bonds.

GUIDED READING ACTIVITY

Ionic Bonds Chapter 5 Reading Notetaking Guide Answers

A Loxley



Ionic Bonds Chapter 5 Reading Notetaking Guide Answers:

Ionic Bonds Chapter 5 Reading Notetaking Guide Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ionic Bonds Chapter 5 Reading Notetaking Guide Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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