

Name _____

Breaking the Bond: Understanding Chemical Bond Breakage

Multiple Choice Questions

1. What are the two primary types of chemical bonds mentioned in the passage?
 - a) Metallic and Van der Waals bonds
 - b) Ionic and metallic bonds
 - c) Covalent and hydrogen bonds
 - d) Covalent and ionic bonds
2. What is the analogy used in the passage to explain covalent bonds?
 - a) Sharing a slice of pizza with a friend
 - b) Tying a knot in a shoelace
 - c) Giving and receiving gifts
 - d) Opening a door to new possibilities
3. How is energy applied to break chemical bonds?
 - a) By cooling the substance
 - b) By removing electrons from atoms
 - c) By adding energy through various means
 - d) By magnetism
4. What happens when a chemical bond is entirely broken?
 - a) The atoms or ions move closer to each other
 - b) The bond becomes stronger
 - c) The atoms or ions are free to interact with other atoms or molecules
 - d) The atoms or ions become positively charged
5. What is one consequence of bond breakage mentioned in the passage?
 - a) Decreased stability of molecules
 - b) Release of energy in the form of heat
 - c) Formation of chemical bonds
 - d) Conversion of gas into a solid

