

Name _____

The Magical Connection: Understanding Chemical Bonds

Multiple Choice Questions

1. What is a chemical bond?
 - a) A physical connection between atoms
 - b) An invisible force that holds atoms together in a molecule or compound
 - c) A type of molecule
 - d) A metal's characteristic property

2. In a covalent bond, atoms:
 - a) transfer electrons
 - b) don't share electrons
 - c) share electrons
 - d) lose their electrons

3. Which type of bond involves the transfer of electrons?
 - a) Covalent bond
 - b) Ionic bond
 - c) Metallic bond
 - d) Hydrogen bond

4. What property of metals is a result of metallic bonds?
 - a) High melting point
 - b) Low conductivity
 - c) Brittle structure
 - d) Insolubility

5. Why are chemical bonds important?
 - a) They make atoms unstable
 - b) They help atoms achieve full outer electron shells
 - c) They prevent the formation of compounds
 - d) They have no impact on life processes

