

Name _____

Bonding Wonders: Everyday Substances and Chemical Bonds

Open-Ended Response Questions

1. Think of a real-world example where knowledge of the types of chemical bonds in a substance is essential. Explain why understanding these bonds is important in that context.
2. Compare and contrast the strengths of covalent bonds, ionic bonds, and metallic bonds, and provide examples of substances for each type of bond.
3. How do Van der Waals forces affect the behavior of gases, and can you give an example of a gas where these forces are significant?
4. Discuss the significance of hydrogen bonds in biological molecules, such as DNA and proteins, and how they contribute to the functions of these molecules.

