

Name _____

Electrifying Bonds: Polar and Nonpolar Covalent Connections

Open-Ended Response Questions

1. Imagine you have a molecule composed of two different atoms, one with high electronegativity and the other with low electronegativity. Explain what type of covalent bond it will form and why.
2. Think of a real-life application where understanding the difference between polar and nonpolar covalent bonds is essential. Describe how this knowledge would be helpful in that situation.
3. Explore the environmental impact of polar and nonpolar substances. How might their properties affect their behavior in natural ecosystems?
4. Can you think of a substance in our everyday lives that is both polar and nonpolar? Explain why it exhibits both types of bonding.

