

Name _____

The Mighty Bond: How Strength Shapes Substance

Open-Ended Response Questions

1. Think of a real-life application where the strength of chemical bonds plays a crucial role. Explain how the properties of the substance are affected by these bonds and why this is important.
2. Compare and contrast the properties of a substance with strong ionic bonds and a substance with strong covalent bonds. How do their properties differ, and why?
3. Imagine you have a material with moderate covalent bonds and another with weak covalent bonds. Predict how their flexibility and hardness would compare, and explain your reasoning.
4. How might the strength of chemical bonds influence the taste of a substance, and can you provide an example?

