

Name _____

Elementary Exploration: Unraveling the Differences Among Elements

Open-Ended Response Questions

1. Discuss the importance of understanding the toxicity of elements in everyday life. Provide examples of elements that can be harmful and how they can be managed safely.
2. Imagine you are a scientist studying the properties of a new element. Describe the steps you would take to determine its electron configuration and its potential uses in technology or industry.
3. Compare and contrast the physical states of elements at room temperature, providing examples of each state and explaining the factors that influence these states.
4. Explore the role of isotopes in an element's atomic mass. How can isotopes of an element have different atomic masses, and why is this important in various scientific fields?

