

Name _____

The Ever-Expanding Periodic Table: Evolution Over Time

Open-Ended Response Questions

1. Investigate the ongoing efforts to discover new elements and expand the periodic table. Discuss the challenges and criteria for officially recognizing a new element and providing it with a name.
2. Analyze the contributions of Glenn T. Seaborg to the field of chemistry and the periodic table's expansion. Explain the significance of synthesizing transuranium elements and their impact on our understanding of atomic structure.
3. Imagine you are a scientist involved in the discovery of a new element with an atomic number higher than any currently known. Describe the process and considerations that would go into confirming the discovery and its placement on the periodic table.
4. Reflect on the historical evolution of the periodic table and its significance in modern chemistry. Discuss how this organized framework has contributed to advancements in the field and our understanding of the natural world.

