

Name _____

The Periodic Table Mystery: Elements Known and Yet to Be Discovered

Open-Ended Response Questions

1. Imagine you are a scientist searching for a new element. Describe the steps you would take and the challenges you might encounter in your quest.
2. Why do you think the periodic table has placeholders for undiscovered elements, even before they are confirmed to exist?
3. In your own words, explain why it's essential to continue exploring and discovering new elements, even though the periodic table already has 118 known elements.
4. If you were part of an international team of researchers searching for a new element, what qualities and skills do you think would be crucial for success in this endeavor?

