

Name _____

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

Short Answer Key

1. Scientists create superheavy elements in laboratories by smashing atoms together in powerful particle accelerators or reactors.
2. The temporary name for Element 119 is "ununennium," and its symbol is Uue.
3. Safety is a concern when experimenting with heavy elements because they can be highly radioactive and hazardous to work with. Proper precautions are necessary to protect both the environment and the scientists conducting the experiments.
4. The Periodic Law helps predict the properties of undiscovered elements by examining the patterns and trends in the periodic table. Elements in the same group often have similar properties, which can be used as a basis for predictions.
5. International collaboration is important in the discovery of new elements because it allows scientists from different countries to pool their resources, expertise, and equipment, making it more likely to succeed in the complex and expensive experiments required for such discoveries.

