

Name _____

Pioneers of the Periodic Table: Early Scientists and the Elements

Short Answer Key

1. Antoine Lavoisier is known for his work on the law of conservation of mass and his role in establishing a logical system for naming and categorizing elements.
2. John Dalton's atomic theory proposed that elements are made up of indivisible particles called atoms, each with a specific mass and chemical properties. This theory laid the foundation for understanding the composition of compounds and elements.
3. Dmitri Mendeleev organized elements based on their atomic mass and properties, noticing a periodic pattern. His periodic table left gaps for undiscovered elements and accurately predicted their properties.
4. Atomic number represents the number of protons in an atom's nucleus. It is used to organize elements on the periodic table by indicating the element's identity.
5. Marie Curie isolated the radioactive elements radium and polonium, advanced our understanding of radioactivity, and pioneered the use of radiation in medicine, particularly in cancer treatment.

