

Name _____

The Significance of Atomic Number and Atomic Mass

Multiple Choice Questions

1. What does the atomic number of an element represent?
 - a) The number of electrons in its nucleus
 - b) The number of protons in its nucleus
 - c) The number of neutrons in its nucleus
 - d) The number of electrons in its outermost shell

2. How are elements arranged on the periodic table?
 - a) By increasing atomic mass
 - b) By alphabetical order
 - c) By increasing atomic number
 - d) By decreasing atomic number

3. What is the significance of the atomic number in determining the chemical behavior of an element?
 - a) It indicates the element's weight
 - b) It determines the element's state at room temperature
 - c) It influences the element's chemical properties
 - d) It determines the element's atomic mass

4. What does atomic mass represent for an element?
 - a) The sum of its protons and electrons
 - b) The mass of its electrons
 - c) The weighted average mass of its isotopes
 - d) The number of its isotopes

5. Which unit is commonly used to express atomic mass?
 - a) Grams
 - b) Pounds
 - c) Atomic mass units (amu)
 - d) Meters

