

Name \_\_\_\_\_

## What Is The Atomic Number Of An Element?

### Short Answer Key

1. The atomic number of an element is a whole number that represents the number of protons in the nucleus of an atom of that element. It is important because it serves as a unique identifier for each element and provides essential information about an element's properties.
2. You can determine the atomic number of an element by looking at its position in the periodic table. Elements are arranged in ascending order of atomic numbers from left to right and top to bottom.
3. No two elements have the same atomic number because it serves as a unique identifier for each element. Elements with different atomic numbers have different numbers of protons in their nuclei.
4. The atomic number represents the number of protons in an atom's nucleus and serves as a unique identifier for each element. It is typically found as a subscript to the left of the element's symbol in its representation.
5. An example of an element and its atomic number is carbon (C) with an atomic number of 6.

