

Name \_\_\_\_\_

## Exploring the Marvelous World of Atoms

### Multiple Choice Questions

1. What are the two types of particles found in the nucleus of an atom?

- a) Electrons and neutrons
- b) Protons and electrons
- c) Protons and neutrons
- d) Electrons and protons

2. Which part of an atom contains electrons?

- a) Nucleus
- b) Valence shell
- c) Electron shell
- d) Proton cloud

3. What is the atomic number of an element?

- a) The total number of particles in the nucleus
- b) The number of protons in the nucleus
- c) The number of electrons in the outermost shell
- d) The total number of electrons in the atom

4. If an atom loses electrons, it becomes a:

- a) Cation
- b) Anion
- c) Neutron
- d) Electron

5. What is the purpose of the nuclear force within an atom's nucleus?

- a) To repel protons
- b) To hold protons and neutrons together
- c) To attract electrons
- d) To determine the atomic number

