

Name _____

What Is An Isotope?

Multiple Choice Questions

1. What is an isotope?
 - A) A type of element with a different number of protons.
 - B) A variant of an element with a different number of neutrons.
 - C) An entirely different element.
 - D) A type of atom with more electrons.

2. What do all atoms of a particular element have in common?
 - A) The same number of neutrons.
 - B) The same number of electrons.
 - C) The same number of protons.
 - D) The same number of electrons and protons.

3. Which isotope of carbon has 6 protons and 8 neutrons?
 - A) Carbon-6
 - B) Carbon-14
 - C) Carbon-8
 - D) Carbon-12

4. Why is the number of neutrons in an atom important?
 - A) It determines the atom's size.
 - B) It affects the atom's color.
 - C) It can influence the atom's properties.
 - D) It determines the atom's charge.

5. How is carbon-14 used in science?
 - A) To make diamonds
 - B) To power spaceships
 - C) To date ancient artifacts and fossils
 - D) To create fireworks

