

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Student Exploration: Nuclear Decay**

**Background:** Alpha particles (helium nuclei), beta particles (high-speed electrons), gamma rays ( $\gamma$  rays), and neutron radiation (free neutrons) are common types of ionizing radiation.

**Other Knowledge:** Neutrons (neutrons) are particles found in the nuclei of atoms.

The number of protons in an atom is called the **atomic number**, and the number of neutrons is called the **mass number**. The sum of the atomic number and the mass number is called the **mass number**.

Particle	Symbol	Charge	Approximate mass
Proton	$p$	$+1$	1 u
Neutron	$n$	0	1 u
Electron	$e$	$-1$	1/1836 u

- The **atomic number** of an atom is equal to the number of protons in the nucleus. What is the atomic number of the nucleus shown? What is the mass number of the nucleus shown? What is the mass number of the atom shown?
- The **mass number** of an atom is equal to the sum of the number of protons and neutrons in the nucleus. What is the mass number of the nucleus shown? What is the mass number of the atom shown?

**Alpha Decay:**

Alpha decay is a type of radioactive decay in which an alpha particle (consisting of two protons and two neutrons) is emitted from the nucleus of an atom. This type of decay is most common in heavy elements with atomic numbers greater than 82.

Alpha decay is a type of radioactive decay in which an alpha particle (consisting of two protons and two neutrons) is emitted from the nucleus of an atom. This type of decay is most common in heavy elements with atomic numbers greater than 82.



- Click Play (▶) and observe. What is the alpha particle made of? What is the charge of the alpha particle? What is the mass of the alpha particle?
  - Click Play and observe. What is the alpha particle made of? What is the charge of the alpha particle? What is the mass of the alpha particle?
- Summary:** Alpha particles are made of two protons and two neutrons. They are emitted from the nucleus of an atom during alpha decay.

# Nuclear Decay Explore Learning Gizmo Answers

**Victor M. Corman**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

## **Nuclear Decay Explore Learning Gizmo Answers:**

## Decoding **Nuclear Decay Explore Learning Gizmo Answers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Nuclear Decay Explore Learning Gizmo Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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