

Name: _____ Date: _____

Student Exploration: Nuclear Decay

Background: Alpha particles (helium nuclei), beta particles (high-speed electrons), gamma rays (γ 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 number of protons plus the number of 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 (a helium nucleus) 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 (a helium nucleus) 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 mass number of the alpha particle? What is the charge of the alpha particle?
 - Click Play and observe. What is the alpha particle made of? What is the mass number of the alpha particle? What is the charge of the alpha particle?
- Summary:** Alpha particles are helium nuclei. They are made of two protons and two neutrons.

Gizmo Explore Learning Answers Keys Nuclear Decay

AW Chickering



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Table of Contents Gizmo Explore Learning Answers Keys Nuclear Decay

1. Understanding the eBook Gizmo Explore Learning Answers Keys Nuclear Decay
 - The Rise of Digital Reading Gizmo Explore Learning Answers Keys Nuclear Decay
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Explore Learning Answers Keys Nuclear Decay
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gizmo Explore Learning Answers Keys Nuclear Decay
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Explore Learning Answers Keys Nuclear Decay
 - Personalized Recommendations
 - Gizmo Explore Learning Answers Keys Nuclear Decay User Reviews and Ratings
 - Gizmo Explore Learning Answers Keys Nuclear Decay and Bestseller Lists
5. Accessing Gizmo Explore Learning Answers Keys Nuclear Decay Free and Paid eBooks
 - Gizmo Explore Learning Answers Keys Nuclear Decay Public Domain eBooks
 - Gizmo Explore Learning Answers Keys Nuclear Decay eBook Subscription Services
 - Gizmo Explore Learning Answers Keys Nuclear Decay Budget-Friendly Options
6. Navigating Gizmo Explore Learning Answers Keys Nuclear Decay eBook Formats

- ePub, PDF, MOBI, and More
 - Gizmo Explore Learning Answers Keys Nuclear Decay Compatibility with Devices
 - Gizmo Explore Learning Answers Keys Nuclear Decay Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gizmo Explore Learning Answers Keys Nuclear Decay
 - Highlighting and Note-Taking Gizmo Explore Learning Answers Keys Nuclear Decay
 - Interactive Elements Gizmo Explore Learning Answers Keys Nuclear Decay
 8. Staying Engaged with Gizmo Explore Learning Answers Keys Nuclear Decay
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gizmo Explore Learning Answers Keys Nuclear Decay
 9. Balancing eBooks and Physical Books Gizmo Explore Learning Answers Keys Nuclear Decay
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gizmo Explore Learning Answers Keys Nuclear Decay
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Gizmo Explore Learning Answers Keys Nuclear Decay
 - Setting Reading Goals Gizmo Explore Learning Answers Keys Nuclear Decay
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Gizmo Explore Learning Answers Keys Nuclear Decay
 - Fact-Checking eBook Content of Gizmo Explore Learning Answers Keys Nuclear Decay
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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