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Student Exploration: Nuclear Decay

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: alpha particle, atomic number, beta particle, daughter product, gamma ray, isotope, mass number, nuclear decay, positron, radioactive, subatomic particle

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

The chart below gives the locations, charges, and approximate masses of three **subatomic particles**. The approximate mass of each particle is given in universal mass units (u).

Particle	Location	Charge	Approximate mass
Proton	Nucleus	1^+	1 u
Neutron	Nucleus	0	1 u
Electron	Orbitals	1^-	0 u

- The **mass number** of an atom is equal to the sum of protons and neutrons in the nucleus. A helium atom has 2 protons and 2 neutrons. What is the mass number of this atom?

4

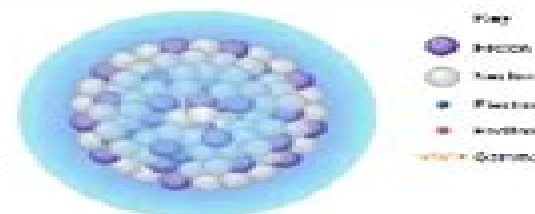
- The **atomic number** of an element is equal to the number of protons in each atom of the element. All helium atoms have 2 protons. What is the atomic number of helium?

2

Gizmo Warm-up

While most atoms are stable, some are **radioactive**, which means that they have a tendency to undergo spontaneous **nuclear decay**. The decay of radioactive atoms generally results in the emission of particles and/or energy.

Several types of nuclear decay can be explored with the *Nuclear Decay* Gizmo. On the Gizmo, check that **Alpha decay** and **Uranium** are selected.



- Click **Play** (▶), and then click **Pause** (⏸) when the **alpha particle** is clearly visible. What is an alpha particle made of? two protons and two neutrons
- Click **Play** and observe. Besides the alpha particle, what else is emitted from the nucleus during alpha decay? a gamma ray

Gamma rays are energetic electromagnetic waves; they are often emitted in nuclear decay.

Explore Learning Gizmo Answer Key Nuclear Decay

AW Rasmussen



Explore Learning Gizmo Answer Key Nuclear Decay:

Whispering the Techniques of Language: An Mental Journey through **Explore Learning Gizmo Answer Key Nuclear Decay**

In a digitally-driven world where screens reign great and immediate interaction drowns out the subtleties of language, the profound techniques and mental subtleties hidden within phrases usually move unheard. However, nestled within the pages of **Explore Learning Gizmo Answer Key Nuclear Decay** a charming fictional treasure sporting with raw feelings, lies a fantastic journey waiting to be undertaken. Written by a talented wordsmith, that enchanting opus encourages visitors on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the very cloth of each word. Within the mental depths of the moving review, we can embark upon a genuine exploration of the book is key styles, dissect their interesting writing model, and yield to the strong resonance it evokes serious within the recesses of readers hearts.

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Table of Contents Explore Learning Gizmo Answer Key Nuclear Decay

1. Understanding the eBook Explore Learning Gizmo Answer Key Nuclear Decay
 - The Rise of Digital Reading Explore Learning Gizmo Answer Key Nuclear Decay
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answer Key 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 Explore Learning Gizmo Answer Key Nuclear Decay
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Gizmo Answer Key Nuclear Decay
 - Personalized Recommendations

- Explore Learning Gizmo Answer Key Nuclear Decay User Reviews and Ratings
- Explore Learning Gizmo Answer Key Nuclear Decay and Bestseller Lists
- 5. Accessing Explore Learning Gizmo Answer Key Nuclear Decay Free and Paid eBooks
 - Explore Learning Gizmo Answer Key Nuclear Decay Public Domain eBooks
 - Explore Learning Gizmo Answer Key Nuclear Decay eBook Subscription Services
 - Explore Learning Gizmo Answer Key Nuclear Decay Budget-Friendly Options
- 6. Navigating Explore Learning Gizmo Answer Key Nuclear Decay eBook Formats
 - ePub, PDF, MOBI, and More
 - Explore Learning Gizmo Answer Key Nuclear Decay Compatibility with Devices
 - Explore Learning Gizmo Answer Key Nuclear Decay Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Explore Learning Gizmo Answer Key Nuclear Decay
 - Highlighting and Note-Taking Explore Learning Gizmo Answer Key Nuclear Decay
 - Interactive Elements Explore Learning Gizmo Answer Key Nuclear Decay
- 8. Staying Engaged with Explore Learning Gizmo Answer Key Nuclear Decay
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Explore Learning Gizmo Answer Key Nuclear Decay
- 9. Balancing eBooks and Physical Books Explore Learning Gizmo Answer Key Nuclear Decay
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Explore Learning Gizmo Answer Key Nuclear Decay
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Explore Learning Gizmo Answer Key Nuclear Decay
 - Setting Reading Goals Explore Learning Gizmo Answer Key Nuclear Decay
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Explore Learning Gizmo Answer Key Nuclear Decay
 - Fact-Checking eBook Content of Explore Learning Gizmo Answer Key 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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