

Writing Nuclear Equations

Chem Worksheet 4-4

Name _____

In the early 1900s scientists discovered that various isotopes will undergo nuclear decay. During this process the unstable nucleus of an atom gives off radiation. When scientists studied this radiation they discovered three types of particles: alpha, beta, and gamma. The **alpha particle** is composed of two protons and two neutrons, so it has a mass of 4 amu and a charge of 2+. A **beta particle** is a high-energy electron emitted from the nucleus. A **gamma ray** often accompanies the other decay processes. Gamma radiation has no charge and no mass.

Radiation Type	Symbol	Mass (amu)	Charge
Alpha	${}^4_2\text{He}$ or ${}^4_2\alpha$	4	2+
Beta	${}^0_{-1}e$ or ${}^0_{-1}\beta$	$\frac{1}{1836}$	1-
Gamma	${}^0_0\gamma$	0	0

Equations can be written to show how a nucleus changes during a nuclear decay process. With these nuclear equations we track the atomic number and the mass number. For this reason it is important to correctly write the symbols for each particle involved. A nuclear equation is written for an alpha decay and a beta decay below. Notice that the sum of the atomic numbers is equal on both sides of the arrow. The sum of the mass numbers is also the same on both sides.



Rewrite the following equations. Fill in all the missing information.



Write nuclear equations that describe the following processes.

- Uranium-235 undergoes an alpha decay to produce thorium-231.
- Lanthanum-144 becomes cerium-144 when it undergoes a beta decay.
- Neptunium-233 is formed when americium-237 undergoes a nuclear decay process.
- When protactinium-229 goes through two alpha decays, francium-221 is formed.
- Uranium-238 undergoes an alpha decay and produces two gamma rays.
- The neon-22 nucleus is formed when an element undergoes a beta decay.
- Samarium-146 is produced when an element undergoes an alpha decay.
- The beta decay of dysprosium-165 creates a new element.

Answer the following questions. Include the mass number when naming isotopes.

- What atom produces scandium-47 when it goes through a beta decay?
- What new element is formed when curium-244 emits two alpha particles and three gamma rays?

Writing Nuclear Equations Answer Key

Marcel A. Müller

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

Writing Nuclear Equations Answer Key:

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Table of Contents Writing Nuclear Equations Answer Key

1. Understanding the eBook Writing Nuclear Equations Answer Key
 - The Rise of Digital Reading Writing Nuclear Equations Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Writing Nuclear Equations Answer Key
 - 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 Writing Nuclear Equations Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Writing Nuclear Equations Answer Key
 - Personalized Recommendations
 - Writing Nuclear Equations Answer Key User Reviews and Ratings
 - Writing Nuclear Equations Answer Key and Bestseller Lists

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