

Name: _____

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Nuclear Fission and Fusion

Learning Objectives

- Compare and contrast nuclear fission and nuclear fusion.
- Understand the conservation laws that apply to nuclear reactions.

Vocabulary

- Fission, fusion, transmutation and nuclide.

Why?

Fission and fusion are two processes that alter the nucleus of an atom. Nuclear fission provides the energy in nuclear power plants and fusion is the source of the sun's energy. The use of fission in power plants can help conserve fossil fuels. Without the energy produced by the fusion of the hydrogen in the sun, the Earth would quickly change into a cold planet that could not support life as we know it.

Information

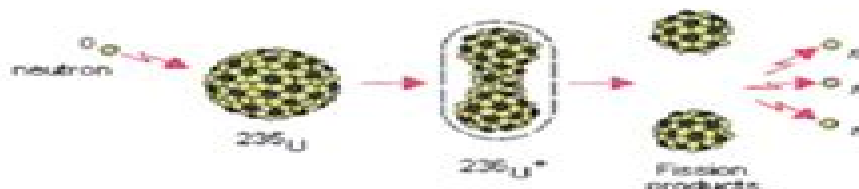
Transmutation is the transformation of the nucleus of an atom so that the atom is changed from one element into a different element. This can be accomplished through many types of reactions, including fission and fusion.

Nuclear transformations always obey two fundamental conservation laws: (1) mass number is conserved and (2) electrical charge is conserved. Energy and mass are not served, but can be inter-converted according to Einstein's equation, $E=mc^2$. The amount of binding energy released from the nucleus of an atom during fission and fusion is so tremendous that a small fraction of mass is converted to energy; this is referred to as the mass defect.

Model

1. Fission

The process of fission occurs when a nucleus splits into smaller pieces. Fission can be induced by a nucleus capturing slow moving neutrons, which results in the nucleus becoming very unstable.



(<http://chemed.chem.purdue.edu/grochessa/topiccon/inner/typ/ch23/Fission.html>)

The following equations represent fission reactions, where n = neutron.



Fission V Fusion Answer Key

J Dewey



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Table of Contents Fission V Fusion Answer Key

1. Understanding the eBook Fission V Fusion Answer Key
 - The Rise of Digital Reading Fission V Fusion Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Fission V Fusion 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 Fission V Fusion Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fission V Fusion Answer Key
 - Personalized Recommendations
 - Fission V Fusion Answer Key User Reviews and Ratings
 - Fission V Fusion Answer Key and Bestseller Lists
5. Accessing Fission V Fusion Answer Key Free and Paid eBooks

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