

Nuclear Fission & Fusion Worksheet Answers

1) Explain the process of nuclear fission.

Heavy nuclei, such as those in uranium, are often unstable and may undergo **nuclear fission**, a process where the nucleus randomly splits into **two smaller nuclei** (sometimes referred to as 'daughter nuclei'). This fission can occur **spontaneously** or can be **induced** by external factors. During **nuclear fission**, a large amount of **energy** is released along with several **free neutrons**, in addition to the two smaller nuclei.

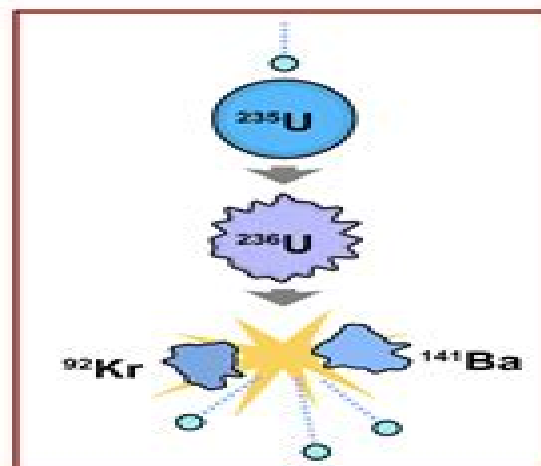
2) Explain, with the use of a diagram, an example of an induced nuclear fission. Include the steps involved in the nuclear fission.

Nuclear fission is depicted in the simple diagram as follows:

A **neutron** is approaching the nucleus of a **U-235** atom.

The **neutron** is absorbed by the nucleus, temporarily transforming it into an excited **U-236** atom.

The **U-236** atom undergoes **fission**, splitting into two smaller nuclei (**Ba-141** and **Kr-92**) and releasing three additional **neutrons**, along with a **substantial amount of energy**.

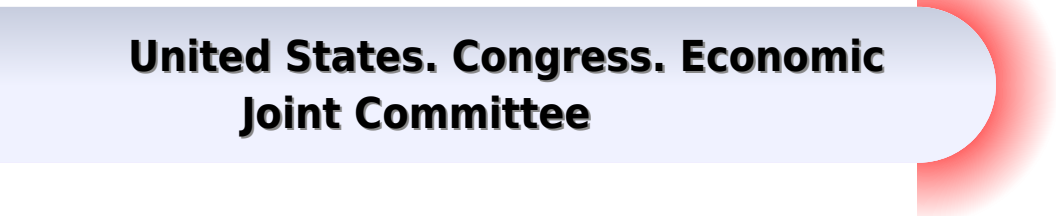


3) Explain why nuclear fission releases energy.

Nuclear fission releases energy because the resulting smaller nuclei have a greater **binding energy per nucleon** compared to the original, larger nucleus.

Fission And Fusion Of Atomic Nuclei Worksheet

**United States. Congress. Economic
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Table of Contents Fission And Fusion Of Atomic Nuclei Worksheet

1. Understanding the eBook Fission And Fusion Of Atomic Nuclei Worksheet
 - The Rise of Digital Reading Fission And Fusion Of Atomic Nuclei Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Fission And Fusion Of Atomic Nuclei Worksheet
 - 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 And Fusion Of Atomic Nuclei Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fission And Fusion Of Atomic Nuclei Worksheet
 - Personalized Recommendations
 - Fission And Fusion Of Atomic Nuclei Worksheet User Reviews and Ratings
 - Fission And Fusion Of Atomic Nuclei Worksheet and Bestseller Lists

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