



FISSION AND FUSION OF ATOMIC NUCLEI

Section Review

Objectives

1. Describe fission and fusion reactions.
2. Explain the conditions for the synthesis of elements.
3. Compare fusion and fission reactions.

Vocabulary

- | | |
|------------|--------------------|
| a. fusion | b. nuclear fission |
| c. fission | d. fusion |

Part A Completion

Write the equation below in each space, using the correct symbols and names for the reactants and products. Each space will accept a two-line equation.

1. Write the equation for the fusion of two deuterium nuclei to form helium-3 and a neutron.
2. Write the equation for the fission of a uranium-235 nucleus to form barium-141, krypton-92, and three neutrons.
3. Write the equation for the fusion of two deuterium nuclei to form helium-4 and a neutron.
4. Write the equation for the fission of a uranium-235 nucleus to form barium-141, krypton-92, and three neutrons.
5. Write the equation for the fusion of two deuterium nuclei to form helium-4 and a neutron.
6. Write the equation for the fission of a uranium-235 nucleus to form barium-141, krypton-92, and three neutrons.

7. Write the equation for the fusion of two deuterium nuclei to form helium-4 and a neutron.
8. Write the equation for the fission of a uranium-235 nucleus to form barium-141, krypton-92, and three neutrons.
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12. Write the equation for the fission of a uranium-235 nucleus to form barium-141, krypton-92, and three neutrons.
13. Write the equation for the fusion of two deuterium nuclei to form helium-4 and a neutron.
14. Write the equation for the fission of a uranium-235 nucleus to form barium-141, krypton-92, and three neutrons.
15. Write the equation for the fusion of two deuterium nuclei to form helium-4 and a neutron.
16. Write the equation for the fission of a uranium-235 nucleus to form barium-141, krypton-92, and three neutrons.

Part B True-False

Write **T** for true and **F** for false in each space.

1. Fusion reactions release energy.
2. Fission reactions release energy.
3. Fusion reactions release energy.
4. Fission reactions release energy.

Fission And Fusion Of Atomic Nuclei Section Review

Unesco

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Fission And Fusion Of Atomic Nuclei Section Review:

Decoding **Fission And Fusion Of Atomic Nuclei Section Review**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Fission And Fusion Of Atomic Nuclei Section Review**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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