Name Date Block

Most nuclear reactions involve changes in the number of protons and/or neutrons in the nucleus of an atom. These changes are called transmutations because an atom of one element is changed into an atom of a different element. During these changes, nuclear particles may be absorbed and/or emitted along with a release of energy.

There are four types of nuclear reactions:

- natural radioactive decay: transmutations occur by natural radioactivity (the ability of a nucleus to emit a nuclear particle and energy without external stimulation);
- artificial transmutation: transmutations occur by nuclear disintegration caused by external stimulation as a scientist bombards a nucleus with a particle (the addition of another nuclear particle makes the nucleus unstable);
- fission: certain nuclei having a large mass are bombarded with special particles that cause the nuclei to split into two nuclei each having a smaller mass;
- fusion: nuclei of light elements are combined to form heavier nuclei.

Nuclear reactions are written using symbols in the "",X notation. The symbols for the major nuclear particles involved in nuclear reactions are given below.

Alpha particle	⁴ ₂ He (an alpha particle is a helium nucleus)
Proton	11H (the most common hydrogen nucleus is a proton)
Neutron	'on
Electron	°.,e or °.,β (also called a beta particle)
Positron	°ie or °iβ
Gamma ray	°oy

The table below contains information about nuclear reactions involving the emission of radiation.

NUCLEAR CHANGES

Type of Reaction	Radiation (Particle)	Effect on the Atomic Number	Effect on the Atomic Mass
Alpha emission (a)	⁴ ₂ He	decrease by 2	decrease by 4
Beta emission (B)	°.,e or °.,β	increase by I	no change
Positron emission (B*)	°ie or °iβ	decrease by I	no change
Gamma emission	°oY	no change	no change
Electron capture (EC)	°.1e or °.1β	decrease by I	no change

Key Terms Nuclear Changes Answers

Morris Hein, Susan Arena, Cary Willard

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Table of Contents Key Terms Nuclear Changes Answers

- 1. Understanding the eBook Key Terms Nuclear Changes Answers
 - The Rise of Digital Reading Key Terms Nuclear Changes Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Key Terms Nuclear Changes Answers
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Key Terms Nuclear Changes Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Key Terms Nuclear Changes Answers
 - Personalized Recommendations
 - Key Terms Nuclear Changes Answers User Reviews and Ratings
 - Key Terms Nuclear Changes Answers and Bestseller Lists

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