# **Student Exploration: Nuclear Reactions**

[Note to teachers and students: This Gizmo was designed as a follow-up to the Nuclear Decay Gizmo. We recommend doing that activity before trying this one.

Vocabulary: chain reaction, CNO cycle, catalyst, deuterium, electron volt, fission, fusion, isotope, nuclear reaction, positron, positron emission, proton-proton chain

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

The chart to the right gives the **isotope** name, element name, number of protons, and number of neutrons of three isotopes.

 What do you notice about the isotope number and the sum of protons and neutrons?

Isotope	Protons	Neutrons
Hydrogen-1	1	0
Carbon-12	6	6
Uranium-235	92	143

They all vary in numbers

The element symbol for uranium-238 is <sup>62</sup> . This means U-238 has a total mass of 238 and contains 92 protons. Write the element symbols for the isotopes in the table:

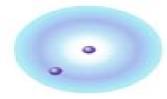
Hydrogen-1 1/1 H

Carbon-12 12/6 C

Uranium-235 235/92 U

#### Gizmo Warm-up

The Nuclear Reactions Gizmo simulates a particle accelerator. Particle accelerators speed up atoms to very high velocities, then crash the atoms together with enough energy to cause changes called nuclear reactions. There are three particle beams available in this Gizmo, protons, neutrons, and helium-3 nuclei.



Click Fire Proton to engage the first particle beam.

What happens? A positron flew out

- Colliding particles don't always react. Click Reset, and then click Fire neutron.
  - A. Does a reaction occur? no
  - B. Explain: the fire neutron flew through



# **Subatomic Physics Concept Review Nuclear Reactions Answer Key**

**Kaplan Test Prep** 

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#### **Table of Contents Subatomic Physics Concept Review Nuclear Reactions Answer Key**

- 1. Understanding the eBook Subatomic Physics Concept Review Nuclear Reactions Answer Key
  - The Rise of Digital Reading Subatomic Physics Concept Review Nuclear Reactions Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Subatomic Physics Concept Review Nuclear Reactions 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 Subatomic Physics Concept Review Nuclear Reactions Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Subatomic Physics Concept Review Nuclear Reactions Answer Key
  - Personalized Recommendations
  - Subatomic Physics Concept Review Nuclear Reactions Answer Key User Reviews and Ratings
  - Subatomic Physics Concept Review Nuclear Reactions Answer Key and Bestseller Lists
- 5. Accessing Subatomic Physics Concept Review Nuclear Reactions Answer Key Free and Paid eBooks
  - Subatomic Physics Concept Review Nuclear Reactions Answer Key Public Domain eBooks
  - Subatomic Physics Concept Review Nuclear Reactions Answer Key eBook Subscription Services
  - Subatomic Physics Concept Review Nuclear Reactions Answer Key Budget-Friendly Options
- 6. Navigating Subatomic Physics Concept Review Nuclear Reactions Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Subatomic Physics Concept Review Nuclear Reactions Answer Key Compatibility with Devices
  - Subatomic Physics Concept Review Nuclear Reactions Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Subatomic Physics Concept Review Nuclear Reactions Answer Key
- Highlighting and Note-Taking Subatomic Physics Concept Review Nuclear Reactions Answer Key
- Interactive Elements Subatomic Physics Concept Review Nuclear Reactions Answer Key
- 8. Staying Engaged with Subatomic Physics Concept Review Nuclear Reactions Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Subatomic Physics Concept Review Nuclear Reactions Answer Key
- 9. Balancing eBooks and Physical Books Subatomic Physics Concept Review Nuclear Reactions Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Subatomic Physics Concept Review Nuclear Reactions Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Subatomic Physics Concept Review Nuclear Reactions Answer Key
  - Setting Reading Goals Subatomic Physics Concept Review Nuclear Reactions Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Subatomic Physics Concept Review Nuclear Reactions Answer Key
  - Fact-Checking eBook Content of Subatomic Physics Concept Review Nuclear Reactions 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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