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Student Exploration: Nuclear Reactions

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

[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.

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

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

The protons and neutrons combined make up the same isotope.

2. The element symbol for uranium-238 is $^{238}_{92}\text{U}$. 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	Carbon-12	Uranium-235
$1/1\text{H}$	$12/6\text{C}$	$235/92\text{U}$

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.

1. Click **Fire Proton** to engage the first particle beam. What happens? _

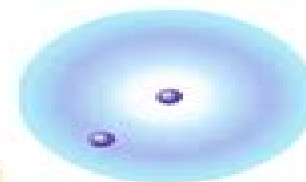
The proton is taken up by the nucleus.

2. Colliding particles don't always react. Click **Reset**, and then click **Fire neutron**.

A. Does a reaction occur? ☐ No

B. Explain:

While traversing the nucleus, the neutron did not combine.



Key Terms Nuclear Changes Answers

Daniel L. Hartl, Elizabeth W. Jones



Key Terms Nuclear Changes Answers:

Defense Issues, 1992 **Key Concepts in Historical Geography** John Morrissey, David Nally, Ulf Strohmayr, Yvonne Whelan, 2014-02-17 This ambitious volume reviews the best recent work in historical geography. It demonstrates how a dual sense of history and geography is necessary to understand such key areas of contemporary debate as the inter relationship between class, race and gender; the character of nations and nationalism; the nature and challenges of urban life; the legacies of colonialism; and the meaning and values attributed to places, landscapes and environments. Mike Heffernan, University of Nottingham. **Key Concepts in Historical Geography** forms part of an innovative set of companion texts for the Human Geography sub disciplines. Organized around 24 short essays, it provides a cutting edge introduction to the central concepts that define contemporary research in Historical Geography. Involving detailed and expansive discussions, the book includes an introductory chapter providing a succinct overview of the recent developments in the field; 24 key concepts entries with comprehensive explanations, definitions and evolutions of the subject; Pedagogic features that enhance understanding including a glossary, figures, diagrams and further reading. **Key Concepts in Historical Geography** is an ideal companion text for upper level undergraduate and postgraduate students and covers the expected staples from the discipline from people, space and place to colonialism and geopolitics in an accessible style. Written by an internationally recognized set of authors, it is an essential addition to any human geography student's library.

Introduction to General, Organic, and Biochemistry Morris Hein, Scott Pattison, Susan Arena, Leo R. Best, 2014-01-15 The most comprehensive book available on the subject. **Introduction to General Organic and Biochemistry** 11th Edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications. Skillfully anticipating areas of difficulty and pacing the material accordingly, this readable work provides clear and logical explanations of chemical concepts as well as the right mix of general chemistry, organic chemistry and biochemistry. An emphasis on real world topics lets readers clearly see how the chemistry will apply to their career.

Nuclear Medicine and PET/CT - E-Book Paul E. Christian, Kristen M. Waterstram-Rich, 2013-08-09 A comprehensive guide to procedures and technologies. **Nuclear Medicine and PET/CT Technology and Techniques** provides a single source for state of the art information on all aspects of nuclear medicine. Coverage includes relevant anatomy and physiology and discusses each procedure in relation to the specific use of radiopharmaceuticals and the instruments required. Edited by experts in nuclear imaging and PET/CT, Paul E. Christian and Kristen M. Waterstram-Rich, this edition has a new chapter on MRI as it relates to nuclear medicine and includes practical step by step instructions for procedures. PET/CT focus with hybrid PET/CT studies in several chapters provides cutting edge information that is especially beneficial to working technologists. **CT Physics and Instrumentation** chapter introduces CT as it is applied to PET imaging for combined PET/CT studies. Authoritative, comprehensive resource conveys state of the art information, eliminating the need to search for information in other sources. Foundation chapters

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Sociology A-Level (ZIMSEC) Past Exam Questions and Model Answers David Chitane, 2024-06-06 This book contains the most comprehensive question bank and model answers for ZIMSEC A Level exam questions It also includes syllabus review notes and exercises Examiners provide observations and tips and point out common errors that students make when answering questions If you use this book faithfully you can't fail and the Grade A is very much within your reach

Towards Rethinking Politics, Policy and Polity in the Anthropocene Hans Günter Brauch, 2025-02-24 Humankind faces two anthropogenic threats to its survival that are closely linked The first is the end of the Holocene and the start of the Anthropocene which was marked by the test of a nuclear bomb on 16 July 1945 In the prevailing peace and security narrative nuclear weapons and the other country bloc or alliance pose a perceived threat to humankind's survival In the Anthropocene narrative we are the threat through our way of life and the burning of fossil fuels The start of the Anthropocene coincides with a change in the international order with the setting up of the UN and the Bretton Woods Institutions Three stages of this order are distinguished the Cold War bipolarity the post Cold War era unipolarity and the end of the rule based global liberal order multipolarity on 24 February 2022 In this book ten multidisciplinary perspectives discuss complexity Anthropocene geopolitics peace and security discourses and the debate on the Anthropocene planetary boundaries complex crises and integrative geography in the Anthropocene governance and politics and the Patriacene and gender Both existential threats for humankind are illustrated by cover photos of the first nuclear weapons test on 16 July 1945 and by Category 5 Hurricane Otis an extreme weather event impacting on Acapulco in Mexico on 25 October 2023 The Anthropocene as a new epoch of Earth history coincides in 1945 with a change in the international order In the security and peace narrative the other and nuclear weapons pose an existential threat in the Anthropocene narrative This dual existential change requires a rethinking of politics policy and polity In the social sciences the Anthropocene is being discussed from multidisciplinary perspectives geography political science and peace security and

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