

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.

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?

They all vary in numbers

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:

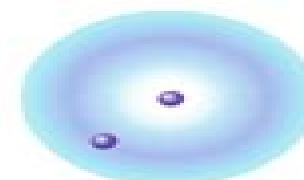
Hydrogen-1 $1/1\text{H}$

Carbon-12 $12/6\text{C}$

Uranium-235 $235/92\text{U}$

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? A positron flew out

2. 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

Nuclear Reactions Answer Key

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Nuclear Reactions Answer Key:

Compound-Nuclear Reactions Jutta Escher, Yoram Alhassid, Lee A. Bernstein, David Brown, Carla Fröhlich, Patrick Talou, Walid Younes, 2021-02-08 The Compound Nuclear Reaction and Related Topics CNR international workshop series was initiated in 2007 with a meeting near Yosemite National Park It has since been held in Bordeaux 2009 Prague 2011 Sao Paulo 2013 Tokyo 2015 and Berkeley California 2018 The workshop series brings together experts in nuclear theory experiment data evaluations and applications and fosters interactions among these groups Topics of interest include nuclear reaction mechanisms optical model direct reactions and the compound nucleus pre equilibrium reactions fusion and fission cross section measurements direct and indirect methods Hauser Feshbach theory limits and extensions compound nuclear decays particle and gamma emission level densities strength functions nuclear structure for compound nuclear reactions nuclear energy nuclear astrophysics and other topics This peer reviewed proceedings volume presents papers and poster summaries from the 6th International Workshop on Compound Nuclear Reactions and Related Topics CNR 18 held on September 24 28 2018 at Lawrence Berkeley National Lab Berkeley CA *E3 Chemistry Review Book - 2018 Home Edition (Answer Key Included)* Effiong Eyo, 2017-10-20 With Answer Key to All Questions Chemistry students and homeschoolers Go beyond just passing Enhance your understanding of chemistry and get higher marks on homework quizzes tests and the regents exam with E3 Chemistry Review Book 2018 With E3 Chemistry Review Book students will get clean clear engaging exciting and easy to understand high school chemistry concepts with emphasis on New York State Regents Chemistry the Physical Setting Easy to read format to help students easily remember key and must know chemistry materials Several example problems with solutions to study and follow Several practice multiple choice and short answer questions at the end of each lesson to test understanding of the materials 12 topics of Regents question sets and 3 most recent Regents exams to practice and prep for any Regents Exam This is the Home Edition of the book Also available in School Edition ISBN 978 197836229 The Home Edition contains an answer key section Teachers who want to recommend our Review Book to their students should recommend the Home Edition Students and parents whose school is not using the Review Book as instructional material as well as homeschoolers should buy the Home Edition The School Edition does not have answer key in the book A separate answer key booklet is provided to teachers with a class order of the book Whether you are using the school or Home Edition our E3 Chemistry Review Book makes a great supplemental instructional and test prep resource that can be used from the beginning to the end of the school year PLEASE NOTE Although reading contents in both the school and home editions are identical there are slight differences in question numbers choices and pages between the two editions Students whose school is using the Review Book as instructional material SHOULD NOT buy the Home Edition Also available in paperback print E3 Chemistry Guided Study Book - 2018 Home Edition (Answer Key Included) Effiong Eyo, 2017-12-08 Chemistry students and Homeschoolers Go beyond just passing Enhance your understanding of chemistry and get higher marks on

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