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## 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?

isotope # is equal to the protons + neutrons

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:

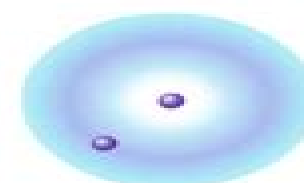
Hydrogen-1  $^1_1\text{H}$

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? they connected ( fused ) and a particle got released

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

A. Does a reaction occur? no

B. Explain: the neutrons passed right through it



# Nuclear Reactions Study Guide And Answers

**RD Boyd**



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**Chemistry, Student Study Guide** James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane  $\text{CH}_4$  from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

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