

Name _____

Date _____

Student Exploration: Nuclear Reactions

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

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

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)
The chart to the right gives the **atomic mass**, **element symbol**, **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

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

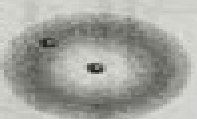
Hydrogen 1 is 1 and Carbon 12 is 12 and Uranium 235 is 235

- The element symbol for uranium-235 is $^{235}_{92}\text{U}$. This means U-235 has a total mass of 235 and contains 92 protons. Write the element symbols for the isotopes in the table.

Hydrogen-1 ^1_1H 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 five particle beams available in the Gizmo: protons, neutrons, and neutrinos.



- Click the Protons to engage the first particle beam.

What happens? Neutrons and protons are produced

- Clicking particles don't always react. Click Helium, and then click the neutrinos.

A. Does a reaction occur? No

B. Explain. Neutrons should react

Activity A	Get the Gizmo ready
Protons-protons chain	<ul style="list-style-type: none"> Click Helium Be sure Proton-neutron is selected in the Reaction type.
	<input checked="" type="radio"/> Protons <input type="radio"/> Neutrons

Introduction: All stars turn hydrogen into helium in a process called **nuclear fusion**. Stars perform this process in different ways. In stars like our sun, the **proton-proton chain** is used. This reaction requires temperatures greater than 1,000,000 K to occur.

Question: How does the process of fusion turn hydrogen into helium in stars?

- Clicking Click Protons and Helium. What happens after the protons merge for the second? Protons and Helium fusion

2. Helium

This is a form of nuclear decay called **positron emission**. During positron emission, a proton decays into a neutron. In this process, it emits a **positron**, which is a nearly massless antiparticle with a positive charge.

- Clicking Click Helium and Click Protons. Observe what happens. Many additional particles appear frequently in nuclear reactions. Their element symbols are given below:

Neutrons	Protons	Electrons	Positrons
^1_0n	^1_1p	$^0_{-1}\text{e}$	$^0_{+1}\text{e}$
			^1_1H

(Positrons $^0_{+1}\text{e}$ are also produced but are beyond the scope of this Gizmo.)

Click Helium and click the Protons. Turn on the Write equation checkbox. Based on what you have observed, write in the equation for this reaction in the Gizmo and below.



- Turn on Show equation. Was your predicted equation correct? Yes

Correct your equation if necessary. The resulting H-2 isotope is called **deuterium**.

- Enlisted energy is reported in megaelectron volts (MeV), where one MeV is equal to one million electron volts. How much energy is emitted in this reaction? 1.44 MeV

(Activity A continued on next page)

Answer Guide To Nuclear Chemistry

JG Myers



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Study Guide for Chemical Principles Thomas Elliott Taylor, 1979

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