

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:

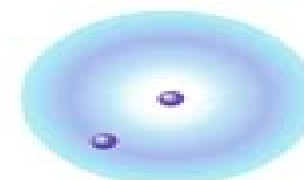
Hydrogen-1 $1/1\text{H}$

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

Subatomic Physics Concept Review Nuclear Reactions

Answer Key

J Rink



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