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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-238	92	143

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

The isotope is the same as the protons and neutrons together.

2. The element symbol for uranium-238 is ^{238}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 ^1H

Carbon-12 ^{12}C

Uranium-238 ^{238}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 gets absorbed into the nucleus.

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

A. Does a reaction occur? No.

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