

## Gizmo #1: Student Exploration: Nuclear Decay

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** alpha particle, atomic number, beta particle, daughter product, gamma ray, isotope, mass number, nuclear decay, positron, radioactive, subatomic particle

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

The chart below gives the locations, charges, and approximate masses of three **subatomic particles**. The approximate mass of each particle is given in universal mass units (u).

Particle	Location	Charge	Approximate mass
Proton	Nucleus	$1^+$	1 u
Neutron	Nucleus	0	1 u
Electron	Orbitals	$1^-$	0 u

1. The **mass number** of an atom is equal to the sum of protons and neutrons in the nucleus. A helium atom has 2 protons and 2 neutrons. What is the mass number of this atom?

4

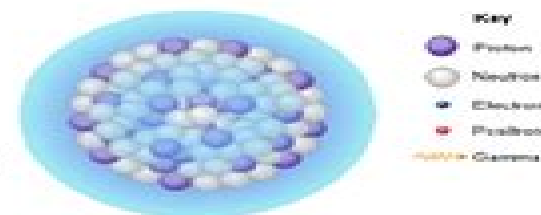
2. The **atomic number** of an element is equal to the number of protons in each atom of the element. All helium atoms have 2 protons. What is the atomic number of helium?

2

### Gizmo Warm-up

While most atoms are stable, some are **radioactive**, which means that they have a tendency to undergo spontaneous **nuclear decay**. The decay of radioactive atoms generally results in the emission of particles and/or energy.

Several types of nuclear decay can be explored with the *Nuclear Decay* Gizmo. On the Gizmo, check that **Alpha decay** and **Uranium** are selected.



1. Click **Play** (▶), and then click **Pause** (⏸) when the **alpha particle** is clearly visible. What is an alpha particle made of? Protons and neutrons
2. Click **Play** and observe. Besides the alpha particle, what else is emitted from the nucleus during alpha decay? Gamma

**Gamma rays** are energetic electromagnetic waves; they are often emitted in nuclear decay.

# Gizmo Student Exploration Nuclear Decay

**RC Schank**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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