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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

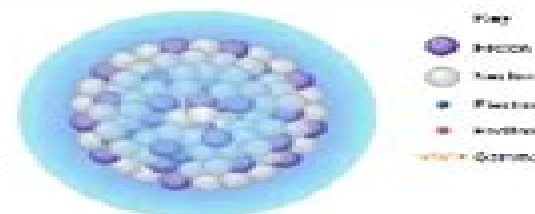
2. The **atomic number** of an element is equal to the number of protons in each atom of the element. All helium atoms have 2 protons. What is the atomic number of helium?

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? two protons and two neutrons
2. Click **Play** and observe. Besides the alpha particle, what else is emitted from the nucleus during alpha decay? a gamma ray

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

Nuclear Decay Gizmo Answer Key

R Barnett

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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