

GIZMOS STUDENT EXPLORATION: HALF-LIFE

Student Exploration: Half-life

Vocabulary: daughter atom, decay, Geiger counter, half-life, isotope, neutron, radiation, radioactive, radiometric rating, radioactive waves

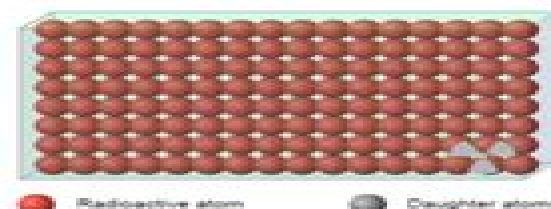
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Have you ever made microwave popcorn? If so, what do you hear while the popcorn is in the microwave? **When popcorn is in the microwave, popping noise comes out of the microwave.**
2. If you turn the microwave on for two minutes, is the rate of popping always the same, or does it change? Explain. **The rate is different because the radioactive waves pops the popcorn at different times.**

Gizmo Warm-up

Like an unpopped kernel in the microwave, a **radioactive** atom can change at any time. Radioactive atoms change by emitting **radiation** in the form of tiny particles and/or energy. This process, called **decay**, causes the radioactive atom to change into a stable **daughter atom**.

The *Half-life* Gizmo™ allows you to observe and measure the decay of a radioactive substance. Be sure the sound is turned on and click **Play** (▶).



1. What do you see and hear? **I hear popping noises and I see radioactive waves.**
Note: The clicking sound you hear comes from a **Geiger counter**, an instrument that detects the particles and energy emitted by decaying radioactive atoms.
2. What remains at the end of the decay process? **Daughter atoms replaced the radioactive atoms. So there is only daughter atoms.**

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Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, **Gizmos Student Exploration Half Life** . This immersive experience, available for download in a PDF format (PDF Size: *), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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