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Date: 06-09-2022

Student Exploration: Half-life

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

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

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?
2. If you turn the microwave on for two minutes, is the rate of popping always the same, or does it change? Explain.

Wiring then popping

Still the same, although depending on the microwave and popcorn, perhaps for a shorter period of time

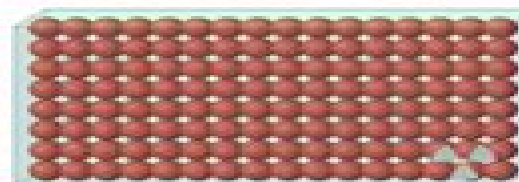
Gizmo Warm-up

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

().



Radioactive atom

Daughter atom

1. What do you see and hear?

Random popping both audortial and visual

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?
3. Is the rate of decay fastest at the beginning, middle, or end of the process?

Daughter atoms

begining

Explore Learning Gizmo Answer Key Half Life

Wenbin Ji

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.

Explore Learning Gizmo Answer Key Half Life:

Decoding **Explore Learning Gizmo Answer Key Half Life**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Explore Learning Gizmo Answer Key Half Life**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

https://staging.conocer.cide.edu/files/uploaded-files/fetch.php/Manual_Garmin_Fenix.pdf

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