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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

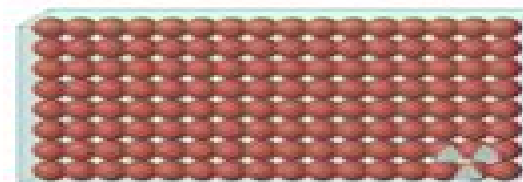
### Gizmo Warm-up

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 Half Life Answers

**Lauren Gardner**



## Explore Learning Gizmo Half Life Answers:

New York Magazine ,1991-03-11 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

New York Magazine ,1993-03-22 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

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