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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

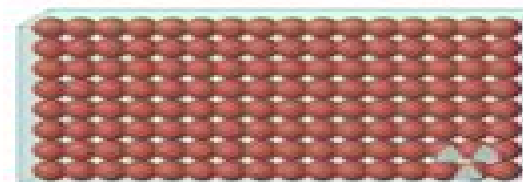
Gizmo Warm-up

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

Gizmo Half Life Student Worksheet Answer Keys

Ensheng Dong

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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