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Date: 1/1/17

Student Exploration: Half-life

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

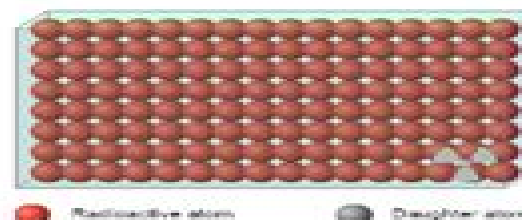
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Have you ever made microwave popcorn? If so, what do you hear while the popcorn is in the microwave? Yes, I hear the kernels popping in the bag.
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 of popping is not always the same because when you first put the bag of popcorn in and start the microwave, there is not a lot of popping, but when the contents of the bag begin to heat up, the popping increases. By the end of the cooking session, all of the kernels should be popped so there is no more popping.

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? There is a static sort of popping sound as the atoms turn from red to blueish gray.

Note: The clicking sound you hear comes from a **Geiger counter**, an instrument that detects the particles and energy emitted by decaying radioactive atoms.

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