



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Half-life

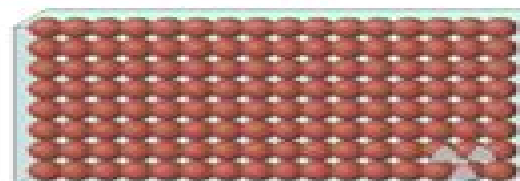
**Vocabulary:** daughter atom, decay, Geiger counter, half-life, isotope, neutron, radiation, radioactive, radiometric dating

**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? **Popping kernels.**
2. If you turn the microwave on for two minutes, is the rate of popping always the same, or does it change? Explain. **It depends on if it just started or at the end of its cycle.**

### 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**.



● Radioactive atom      ● 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? **the kernels popping gently popping.**

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

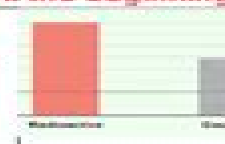
2. What remains at the end of the decay process? **A daughter atom.**

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

**Activity A:**  
**Decay curves**

**Get the Gizmo ready:**

- Click **Reset** (↺). Be sure that **User chooses half-life** and **Random decay** are selected.
- Check that the **Half-life** is 20 seconds and the



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**Yicheng Fang**



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