

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? _____

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

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? _____

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? _____

Explore Learning Half Life Answer Key

Jiyuan Zhang



Explore Learning Half Life Answer Key:

Embracing the Tune of Phrase: An Psychological Symphony within **Explore Learning Half Life Answer Key**

In some sort of consumed by displays and the ceaseless chatter of instantaneous connection, the melodic splendor and psychological symphony created by the prepared term usually disappear in to the back ground, eclipsed by the constant noise and distractions that permeate our lives. But, situated within the pages of **Explore Learning Half Life Answer Key** a charming literary prize overflowing with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this charming masterpiece conducts readers on a mental journey, well unraveling the hidden melodies and profound affect resonating within each carefully crafted phrase. Within the depths of the emotional examination, we will examine the book is central harmonies, analyze its enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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Explore Learning Half Life Answer Key Introduction

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