

Student Exploration: Half-life

Prerequisite Knowledge: Students should know half-life using the formula:

1. What does your graph indicate about the parent? How, if possible, you have written the equation for the substance?

1. Yes, I have a graphing device.

2. If you have the measurements for each half-life on the graph, do you have a better sense of what is changing? Explain.

Yes, about how much there was before and how much decayed each half-life.

Warm-up Activity

Like an exponential function, the substance's **radioactivity** (which has a constant half-life) decays exponentially. Radioactive atoms change by emitting **particles** (alpha, beta, or gamma rays) and losing energy. This process, called **decay**, reduces the number of atoms in a sample over a certain **period of time**.

The half-life of a substance is the amount of time it takes for half of the substance to decay. The unit of time depends on the substance and is often (Fig. 17.1).

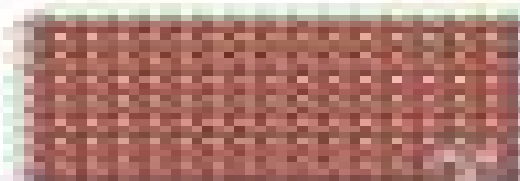


Figure 17.1: A small amount of a radioactive substance.

3. What do you know about half-life?

A constant proportion of the

Notes: The following activity is designed to help students understand the concept of half-life and how it is used to determine the age of a sample.

4. What happens to the amount of the substance over time?

It decreases over time.

5. In the next activity, look at the graphing activity on parent the process?

The half-life of a substance is the time it takes for half of the substance to decay.



Half Life Gizmo Answer Key

Michael Hoelscher

A red circular graphic with a gradient, partially overlapping the right side of the grey bar.

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