

Student Exploration: Half-Life

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

1. What does your teacher tell you about the relationship between the number of atoms of a radioactive substance and the time it takes to decay?

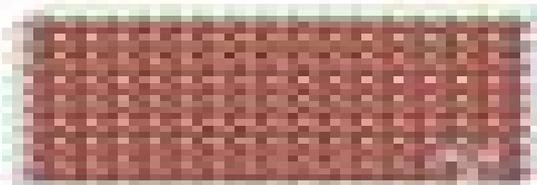
Time, I think is proportional to amount.

2. If you have two radioactive substances, one with a half-life of 100 years and another with a half-life of 50 years, how long will it take for the amount of the 50-year substance to decay to the amount of the 100-year substance?

100 years, because the 50-year substance decays twice as fast.

Warm-Up

Like any other substance, a radioactive substance has a certain mass. As the substance decays, its mass decreases. In this activity, you will explore how the mass of a radioactive substance changes over time. You will also explore how the half-life of a radioactive substance affects the rate at which it decays.



Americium-241 Americium-241

The half-life of a radioactive substance is the time it takes for half of the substance to decay. For example, if a substance has a half-life of 100 years, then after 100 years, only half of the original amount of the substance will remain.

1. What is the half-life of the substance?

100 years, I think.

Notes: The following activity will help you explore the half-life of a radioactive substance. You will use the Gizmo to simulate the decay of a radioactive substance and to measure its half-life.

2. What is the half-life of the substance in the Gizmo?

100 years.

3. In the Gizmo, what is the half-life of the substance?

100 years, I think.



Half Life Gizmo Answer Key

Shasha Hu



Half Life Gizmo Answer Key:

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