

RADIOACTIVE DECAY LAB



Radioactive elements slowly decay over time. The half-life of a radioactive substance is the time it takes for one half of the sample to decay. By studying the number of elements that have decayed in a given rock sample and comparing that to the element's half-life, we can get an idea of the age of that rock sample.

Purpose: To simulate the process of radioactive decay and to illustrate the concept of half-life.

Materials:

100 two-sided chips
Plastic box with lid
Transparent chips

Two different colored pens or pencils
Calculator

Procedure:

1. Verify that you have a total of 100 two-sided chips by making 10 groups of 10.
2. Place all 100 two-sided chips in your box with the RED side UP.
3. For the experiment, we're making the following assumptions:
 - When the YELLOW side is face up, the atom has decayed.
 - When the RED side is face up, the atom has not yet decayed.
4. Place the lid on the box and shake it ONE time.
5. Open the lid and remove all the chips that are YELLOW side up.
6. Record in your data table how many decayed chips (YELLOW side up) and undecayed chips (RED side up) you have left after each shake.
7. Replace each yellow chip you removed with one of the transparent colored chips provided in the middle of the table.
8. Repeat steps 4, 5, 6 & 7 until you've run out of red "undecayed" chips or until you have finished 10 trials.
9. One student should see your teacher to record your data at the computer. The other student should clean up your supplies.
10. When instructed, record the class averages for each trial in your data table at your teacher's direction.
11. Graph your data. On your graph, connect YOUR group's data with in one color. Graph the class average with another color.
12. Complete the reflection questions.



Activity 1 Radioactive Decay Lab Student Guide

Jianjun Gao



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