

Half-Life Lab

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Purpose

The purpose of this hands-on lab is to model the concept of half-life using a simple, yet rigorous, mathematical model.

Materials

- 100 identical marbles, pennies, or other small, comparable with mass objects
- container or other small bag/pouch for

Procedure

1. Place 100 marbles in the shoe box, covered surface. The marbles will stand for atoms of a hypothetical radioactive element.
2. Cover the box and shake it vigorously for three seconds. This is one time interval.
3. Remove the lid and take out any marbles pointing that face that are thus showing towards you directly. These marbles represent the atoms that decayed during the time interval. Count and record the number while the number of decayed atoms and the number of remaining, not decayed, atoms.
4. Continue repeating steps two and three until all atoms have decayed or you have reached 10 seconds in the shoe box.
5. Repeat the entire experiment (steps 1-4) at least 5 times and record all data.

Data and Observations

Time Interval (seconds) Number of Atoms Number of Atoms Remaining Number of Atoms Decayed			
0	100	100	0
3	100	75	25
6	100	56	44
9	100	42	58
12	100	31	69
15	100	23	77
18	100	17	83
21	100	12	88
24	100	9	91
27	100	6	94
30	100	4	96
33	100	3	97
36	100	2	98
39	100	1	99
42	100	0	100

Repeat and complete a data table like the one below for each trial.

Virtual Lab Half Life Answers

Rachel S Tattersall



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