

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, inexpensive radioactive source.

Materials

- 100 M&M's candies, pretzels, or other small, countable items with two distinct sides
- container or other small bag/pot to hold

Procedure

1. Place 100 candies in the clear bag, closed and up. The candies will stand for atoms of a hypothetical radioactive element.
2. Close the bag and shake it vigorously for 30 seconds. (This is one time interval.)
3. Remove the 100 candies and any candies painted that face that are now showing (representing decay). These candies represent the atoms that decayed during the time interval. Count and record the number until 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 class/lab.
5. Repeat the entire experiment (steps 1-4) at least 3 times and record all data.

Data and Observations

Time Interval (seconds) Number of Atoms Number of Atoms Number of Atoms			
0	100	0	0
10	50	50	50
20	25	75	75
30	12	88	88
40	6	94	94
50	3	97	97
60	1	99	99
70	0	100	100
80	0	100	100
90	0	100	100
100	0	100	100

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

Virtual Lab Half Life Answers

Roman Wölfel

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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