



Half-Life of Pennyium Activity



Purpose: To simulate the transformation of a radioactive isotope over time and to graph the data and relate it to radioactive decay and half-lives. Time will be analogous to trials for our experiment.

Pre-Lab Questions:

1. What are the three main forces that exist in the nucleus of an atom? Which is/are repulsive and which is/are attractive?
2. Why do atoms go through radioactive decay? (Why are nuclei unstable?)
3. What is half-life?

Materials:

- 100 pennies (or M&Ms)
- cup
- graph paper
- 100 paper clips

Procedure:

Pour 100 pennies from your cup onto the lab table. In your grid, record the total number of heads that result. These heads represent pennies that have decayed into daughter atoms. Place all of the "tails" pennies back in the cup, and replace the "heads" pennies (pennyium decayed isotopes) with the same number of paper clips (Clipium daughter isotopes).¹ Pour the "tails" pennies and clips from your cup onto the lab table. Record the total number of heads that result. Continue this procedure until you obtain no more tails. (3% pennies remaining should go from 100% to 0%. It may require more or less than 7 trials)

Trial #	Number of pennies	Number of heads	% pennies remaining
1	100	0	100%
2			
3			
4			
5			
6			
7			

Analysis:

1. Use graph paper to plot the % pennies remaining (y-axis) versus the trial number (x-axis). Draw a smooth line or curve through the points.
2. Examine your graph. Is the rate of the number of heads produced over time linear or nonlinear? Is the rate constant over time or does it vary over time?
3. With another color pen, draw the % pennies that *are predicted* to remain after each half-life on your same graph.
4. A half-life is the time required for one-half of the atoms of a radioisotope to emit radiation and to decay to products. For the process of flipping pennies, what do the "heads" pennies and "tails" pennies represent respectively?

¹ In a sample the atoms don't leave a sample leaving space behind, they change into something else. Just as you saw with your alpha, beta decays.

Half Life Of Pennyium Activity Answers

Margaret Faulkner



Half Life Of Pennyium Activity Answers:

Half-Life 95 Success Secrets - 95 Most Asked Questions on Half-Life - What You Need to Know Margaret Faulkner, 2015-01-12 A brand new Half life Guide Half life t1 2 is the quantity of time needed for a amount to fall to fifty per cent its worth as calculated at the start of the time time While the expression Half Life may be applied to report whatever amount that tails an exponential decompose it is nearly all frequently applied inside the setting of atomic natural science and atomic chemistry that is the time needed probabilistically for fifty per cent of the unsteady emitting radiation particles in a tester to experience emitting radiation decompose There has never been a Half life Guide like this It contains 95 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Half life A quick look inside of some of the subjects covered Half Life video game Expansions Planet Half Life Game servers Half Life Opposing Force Elimination half life Half Life Decay Plot Gordon Freeman Half Life 2 and Episodes Scanner Half Life Overwatch Teleportation in fiction Half Life series Half Life video game Reception and legacy Half Life 2 Lost Coast Level design Scanner Half Life Advisors Half Life Decay Critical reception Half Life Blue Shift Gameplay Half Life video game Development Tinidazole Half life Half Life video game Story Half Life video game Sequels Half Life 2 Lost Coast Story List of isotopes by half life Biological half life Alcohol Half Life Opposing Force Setting Planet Half Life History Half Life Blue Shift Critical reception Half Life 2 Deathmatch Team Deathmatch Half Life series Plot Half Life video game Third party mods Planet Half Life Site hosting and much more

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Half Life Of Pennyium Activity Answers Introduction

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