



Half-Life of Pennium 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 (pennium 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. (% 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 Pennyium Activity Lab Answers

Thomas Griffiths



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Table of Contents Half Life Pennyium Activity Lab Answers

1. Understanding the eBook Half Life Pennyium Activity Lab Answers
 - The Rise of Digital Reading Half Life Pennyium Activity Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Half Life Pennyium Activity Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Half Life Pennyium Activity Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Half Life Pennyium Activity Lab Answers
 - Personalized Recommendations

- Half Life Pennyium Activity Lab Answers User Reviews and Ratings
- Half Life Pennyium Activity Lab Answers and Bestseller Lists
- 5. Accessing Half Life Pennyium Activity Lab Answers Free and Paid eBooks
 - Half Life Pennyium Activity Lab Answers Public Domain eBooks
 - Half Life Pennyium Activity Lab Answers eBook Subscription Services
 - Half Life Pennyium Activity Lab Answers Budget-Friendly Options
- 6. Navigating Half Life Pennyium Activity Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Half Life Pennyium Activity Lab Answers Compatibility with Devices
 - Half Life Pennyium Activity Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Half Life Pennyium Activity Lab Answers
 - Highlighting and Note-Taking Half Life Pennyium Activity Lab Answers
 - Interactive Elements Half Life Pennyium Activity Lab Answers
- 8. Staying Engaged with Half Life Pennyium Activity Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Half Life Pennyium Activity Lab Answers
- 9. Balancing eBooks and Physical Books Half Life Pennyium Activity Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Half Life Pennyium Activity Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Half Life Pennyium Activity Lab Answers
 - Setting Reading Goals Half Life Pennyium Activity Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Half Life Pennyium Activity Lab Answers
 - Fact-Checking eBook Content of Half Life Pennyium Activity Lab Answers

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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