

The Half-life of Pennies Lab

Can you use pennies to demonstrate "decay"?

Imagine existing more than 5,000 years and still having more than 5,000 to go! That is exactly what the unstable element carbon-14 does. Carbon-14 is a special unstable element used in the absolute dating of material that was once alive, such as fossil bones. Every 5,730 years, half of the carbon-14 in a fossil specimen decays or breaks down into a more stable element. In the following lab you will see how pennies can show the same kind of "decay."

Materials

- 100 pennies
- large container with a cover

Procedure

- Place 100 pennies in a large, covered container. Shake the container several times and remove the cover. Carefully empty the container on a flat surface, making sure the pennies don't roll away.
- Remove all the coins that have the "head" side of the coin turned upward. Record the number of pennies removed and the number of pennies remaining in the data table below.

Data Table (5 points)

| Shake number | Number of coins remaining | Number of coins removed |
|--------------|---------------------------|-------------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |

- Repeat the process until no pennies are left in the container. Remember to remove only the coins showing "heads."
- Draw a graph to plot your data. Label the x -axis "Number of shakes," and label the y -axis "Pennies remaining." Using data from your data table, plot the number of coins remaining at each shake.

Half Life Of Pennies Lab Answers

Jin-Ying Zhang



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Making Sense of Intermediate Algebra Judith Kysh, Tom Sallee, Elaine Kasimatis, Derek Lance, John Compton, Karen Wootten, 1997-08 *Hands-On Physical Science* Laurie E. Westphal, 2021-09-09 Hands On Physical Science immerses students in the world of real life chemists and physicists Through engaging authentic learning experiences students will engage in fascinating experiments while building STEM skills This book is packed with activities that can easily be conducted in the classroom using everyday materials and includes everything teachers need to help students think critically and problem solve as they explore the fascinating world of physical science From examining Newton s laws using sports video clips to studying energy through the design and building of roller coasters students will not just learn about physical science they will be scientists Grades 6-8 **ChemDiscovery Lab Manual** Olga I. Agapova, 2002 **Chemistry in the**

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James Watson and Francis Crick's 1953 discovery of the double helix structure of DNA is the foundation of virtually every advance in our modern understanding of genetics and molecular biology. But how did Watson and Crick do it and why were they the ones who succeeded? In truth, the discovery of DNA's structure is the story of five towering minds in pursuit of the advancement of science and for almost all of them, the prospect of fame and immortality. Watson, Crick, Rosalind Franklin, Maurice Wilkins, and Linus Pauling. Each was fascinating and brilliant with strong personalities that often clashed. Howard Markel skillfully re-creates the intense intellectual journey and fraught personal relationships that ultimately led to a spectacular breakthrough. But it is Rosalind Franklin, fiercely determined, relentless, and an outsider at Cambridge and the University of London in the 1950s as the lone Jewish woman among young male scientists who becomes a focal point for Markel. *The Secret of Life* is a story of genius and perseverance but also a saga of cronyism, misogyny, anti-Semitism, and misconduct. Drawing on voluminous archival research including interviews with James Watson and with Franklin's sister Jennifer Glynn, Markel provides a fascinating look at how science is done, how reputations are undone, and how history is written and revised. A vibrant evocation of Cambridge in the 1950s, Markel also provides colorful depictions of Watson and Crick, their competitiveness, idiosyncrasies, and youthful immaturity, and compelling portraits of Wilkins, Pauling, and most cogently, Rosalind Franklin. *The Secret of Life* is a lively and sweeping narrative of this landmark discovery, one that finally gives the woman at the center of this drama her due. *Scientific American*, 1924 **Farmer's Weekly**, 1917 **Popular Science**, 1943-10. Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. *Popular Mechanics*, 1945-03. Popular Mechanics inspires, instructs, and influences readers to help them master the modern world. Whether it's practical DIY home improvement tips, gadgets, and digital technology information on the newest cars or the latest breakthroughs in science, PM is the ultimate guide to our high-tech lifestyle. **The United States Publisher**, 1929 *Mathematics in Life, Society, and the World*, 2000. For undergraduate courses in Liberal Arts Mathematics. This contemporary approach to liberal arts math is especially helpful to instructors who want to break away from traditional instruction and move towards a more modern course that stresses rich ideas and more visualization with less review. This text offers superb pedagogy, an accessible writing style, and mathematical integrity and is student-friendly. Its unique four-part organization presents liberal arts students with sound, relevant mathematics and will leave them with the correct impression that math is useful and affects their lives in many positive ways.

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