

Name_____

Date_____

Per_____

100 Pennycorn Half-Life Lab

The half-life of a radioactive element is the time it takes for half of the radioactive atoms to decay. This lab was designed to simulate the decay of the radioactive element **Pennycorn** in a simulated lab box.

Materials:

1. 100 pennies: per group
2. 1 Plastic lab bin, with lid, per group
3. Group Role: paper at each table group. (**Read this First!**)

Procedure:

1. First, make sure you have 100 pennies. Place the pennies into the bin so that they are all **HEADS UP**. Heads represents the **unstable** element.
2. Cover the bin and shake it **FIVE TIMES** vigorously so that the pennies are well mixed. Each shake of the bin is equal to 5 years. All pennies should be lying flat so make sure there are no pennies leaning against the side of the bin.
3. Open the bin and remove all pennies that are **TAILS UP**. Pennies that are tails up represent the **stable** element. Stack the pennies up in a column.
4. Record, on your data table below the number of pennies **remaining** in the bin.
5. Repeat steps 2-4 until only one (or zero) penny remains in the bin.

Data Table:

Total # of Half-Lives	Total # of Years	Pennies remaining in bin
	0	100
1 (5 shakes)	5	
2 (5 shakes)	10	
3 (5 shakes)		
4 (5 shakes)		
5 (5 shakes)		
6 (5 shakes)		
7 (5 shakes)		
8 (5 shakes)		
9 (5 shakes)		

Follow Up Questions – 5 points

1. Approximately what fraction of the remaining pennies was removed from the bin after each trial? _____
2. How many trials did it take until the bin contained only one or zero pennies? _____
3. If 1 shake of the box equals 5 years, how many years is 1 half-life? _____
4. Imagine that the bin is a fossilized bone. When you found the fossil it contained 25 nanograms of a radioactive element. When the bone was first fossilized, it contained 100 nanograms. If the half-life of the radioactive element is 5730 years, how old is the fossilized bone? Show your work! (2 points) _____

Use **(Insert a reference to a resource here, in notebook, webpage)** to answer the following questions:

5. The amount of a radioactive element goes down by how much (fraction, percent) for each half-life? _____
6. How old are the oldest rocks found on the moon? _____
7. What do scientists estimate Earth's age to be? _____

Half Life Of Pennies Lab Answers

Bill Bryson



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ChemDiscovery Lab Manual Olga I. Agapova,2002 *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 **Making Sense of Intermediate Algebra** Judith Kysh,Tom Sallee,Elaine Kasimatis,Derek Lance,John Compton,Karen Wootten,1997-08 Laboratory Manual in Physical Geology American Geological Institute,1997 This Laboratory Manual in Physical Geology is a richly illustrated user friendly laboratory manual for teaching introductory geology and geoscience **Chemistry in the Community.** American Chemical Society,2002 This volume has relevance to a wide number of courses giving a hands on introduction to chemistry in relation to community issues rather than around specific chemical concepts *Chemical Interactions* ,2005 A Short History of Nearly Everything: Special Illustrated Edition Bill Bryson,2010-11-30 This new edition of the acclaimed bestseller is lavishly illustrated to convey in pictures as in words Bill Bryson's exciting informative journey into the world of science In A Short History of Nearly Everything the bestselling author of A Walk in the Woods and The Body confronts his greatest challenge yet to understand and if possible answer the oldest biggest questions we have posed about the universe and ourselves Taking as his territory everything from the Big Bang to the rise of civilization Bryson seeks to understand how we got from there being nothing at all to there being us The result is a sometimes profound sometimes funny and always supremely clear and entertaining adventure in the realms of human knowledge as only Bill Bryson can render it Now in this handsome new edition Bill Bryson's words are supplemented by full color artwork that explains in visual terms the concepts and wonder of science at the same time giving face to the major players in the world of scientific study Eloquently and entertainingly described as well as richly illustrated science has never been more involving or entertaining **Grist** ,1993 Boys' Life ,1970-12 Boys Life is the official youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting *Chemistry* McGraw-Hill Staff,2001-07 *Boys' Life* ,1970-06 Boys Life is the official youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting **Boys' Life** ,1970-11 Boys Life is the official youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting **August's Consultations in Feline Internal Medicine, Volume 7** Susan E. Little,2015-12-14 Stay current with cutting edge information from the leading feline experts August's Consultations in Feline Internal Medicine

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