

Name_____

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100 Penny 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 **Phosphorus** in a fictional 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 bin equals 5 years, how many years is 1 half-life? _____
4. Imagine that the bin is a fictional bone. When you found the fossil it contained 25 megagrams of a radioactive element. When the bone was first fossilized, it contained 100 megagrams. 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 Pennyium Activity Lab Answers

ML Yell



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Embracing the Melody of Phrase: An Psychological Symphony within **Half Life Pennyium Activity Lab Answers**

In a global eaten by displays and the ceaseless chatter of immediate conversation, the melodic splendor and mental symphony developed by the prepared word frequently disappear in to the background, eclipsed by the constant noise and interruptions that permeate our lives. However, situated within the pages of **Half Life Pennyium Activity Lab Answers** a charming literary treasure overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this fascinating masterpiece conducts visitors on a mental trip, well unraveling the hidden melodies and profound influence resonating within each carefully constructed phrase. Within the depths of this moving review, we can examine the book is key harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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