



## 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).<sup>1</sup> 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?

<sup>1</sup> 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

**Mike Jess**



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