

Name _____ Date _____

Period _____

Radioactive Decay Lab: Skittles Half-Life Simulation

Radioactive substances are nothing to be afraid of, radiation occurs naturally, even within our own bodies. Radioactive substances are unstable and thus they disintegrate or decay. The rate of radioactive decay varies depending on the isotope of the element, and the rate is often expressed as the half-life of the material. To help better understand the concept of half-life we are going to do an activity using Skittles as our "radioactive" atoms. Skittles that land with the blank side up are not radioactive, and will therefore be known as the element Blankium (Bl). Skittles that land with their "S" side up will be considered radioactive, known as the element Skittilium (Sk).



Skittilium = Radioactive



Blankium = Non-radioactive

Procedure:

1. Pour your Skittles onto the plate so that none of them touch the desk. Count out the Skittles, and place them back in the cup. Record the exact number of Skittles you are starting with in the Data Table below. **DO NOT** eat any Skittles yet, they are all radioactive!
2. Place your hand over your cup, and shake your cup for 10 seconds (the half-life for Skittles) and then pour the Skittles onto the plate. **Do not turn any over!** This represents the passing of a half-life, or decay period. Count all of the non-radioactive Blankium atoms and record the number in your Data Table. Then you may eat them...they're safe!
3. Count the number of radioactive Skittilium atoms remaining and record the number in the Data Table. Put them back in the cup. Shake them for 10 seconds and dump them back onto your plate. This represents a second half-life, or decay period.
4. Again, remove the Blankium atoms that have decayed, record how many are left, and then eat them. Count the radioactive Skittilium atoms that remain and record this number.
5. Repeat these steps until all of your Skittles have decayed or your radioactive Skittles have gone through 8 half-lives.

Data Table

# of Half-Lives (X-axis on the graph on the back)	Total Time	Number of Radioactive Skittilium atoms remaining (Y-axis for first line)	Number of Non- radioactive Blankium atoms remaining (Y-axis for 2 nd line)
0	0 seconds	(the total # of Skittles you started with.)	0
1	10 seconds		
2			
3			
4			
5			
6			
7			
8			

Radioactive Decay Lab Skittles Answers

S Marginson



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