

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

TD Snyder



Radioactive Decay Lab Skittles Answers:

Exploratorium: Science Snacks Online: Radioactive Decay Model , Radioactive Decay Model is a science experiment that is part of Science Snacks Online a service of the Exploratorium in San Francisco California The student uses pennies to illustrate the principle of half life in regards to radioactive decay The Exploratorium lists the materials needed and highlights the activity procedures This activity is suitable for use in the classroom or by individual students Science Snacks Online activities can be adapted for use with elementary middle or high school students

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Radioactive Decay Lab Skittles Answers**

In some sort of inundated with monitors and the cacophony of quick transmission, the profound energy and emotional resonance of verbal art frequently fade in to obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, set within the lyrical pages of **Radioactive Decay Lab Skittles Answers**, a fascinating work of fictional splendor that impulses with organic thoughts, lies an wonderful trip waiting to be embarked upon. Published with a virtuoso wordsmith, this interesting opus guides viewers on a psychological odyssey, gently exposing the latent potential and profound affect embedded within the elaborate internet of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is central subjects, dissect their captivating publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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