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**Radioactive Decay:
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of Half Life**

Radioactive Decay: A
Sweet Simulation of
Half-Life Student
Activity Sheet

Materials. For each pair
of students, you will
need: a cup containing
about 80 small candies
such as plain M&M's®

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or Skittles® a paper
towel

Radioactive Decay: A Sweet Simulation of a Half-life ...

Students will enjoy using M and M's to simulate radioactive decay in this activity from Science NetLinks. This lab demonstrates that the rates of decay of unstable nuclei can be measured, that the exact time that a certain nucleus will

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decay cannot be predicted, and that it takes a very large number of nuclei to find the rate of decay.

Radioactive Decay: A Sweet Simulation

In this simulation, you will use small pieces of candy marked on one side. They will be your “nuclei.” You also need a paper towel on which to place your “nuclei.”
Procedure: 1. Count your nuclei (candy).

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Write that number in the data table under the heading "Number of Radioactive Nuclei."

Radioactive Decay: A Sweet Simulation of Half-Life ...

Radioactive Decay: A sweet simulation of half-life Introduction: Testing of radioactive minerals in rocks best determines the absolute age of the rock. In radiometric dating, different

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isotopes of elements are used depending on the predicted age of the igneous rocks.

Potassium/Argon dating is good for rocks 100,000 years old since

Name: Radioactive Decay: A sweet simulation of half-life ...

In this lesson, students will be asked to simulate radioactive decay by pouring small

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candies, such as plain M&M's® or Skittles®, from a cup and counting which candies fall with their manufacturer's mark down or up.

Radioactive Decay: A Sweet Simulation of Half-Life - SAS

Radioactive Decay: A Sweet Simulation of Half-Life Your lab book must contain the following to be considered complete:

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Title, Data Table,
Analysis/Conclusions

Introduction In this simulation, you will use small pieces of candy marked on one side. They will be your “nuclei.” You also need a paper towel on which to place your “nuclei.”

Radioactive Decay: A Sweet Simulation of Half-Life

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0. Sign in to rate this resource. Type of Resource: Weblink This online resource looks into the concept of radioactive decay. The resource is a lesson that uses M&Ms or Skittles as a model to examine the rate of decay of unstable nuclei.

Radioactive Decay: a sweet simulation of a half-life | ASSIST

Radioactive Decay: A

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A Sweet
Simulation of
Half-Life. Radioactive
Decay: A Sweet
Simulation of Half-Life

In this simulation, ...

What is the half-life of
a radioactive isotope if
a 500.0g sample
decays to 62.5g in 24.3

.

Life Science

Practical

Investigation Of

Simulation Of ...

Science NetLinks has a
very nice lesson plan

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for a similar activity entitled Radioactive Decay: A Sweet Simulation of a Half-Life Answer Key

Life Science House has a template for Radioactive Decay of Cadium Teachers Experiencing Antarctica and the Arctic has an activity entitled The Dating Game that actually has the students apply what they are learning to a real problem.

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**M&M Model for
Radioactive Decay -
Activity Collection**

Radioactive Decay A
Sweet Simulation of
Half-Life Purpose:

Students shall
investigate: • How do
radioactive nuclei
decay over time?

Materials: • M&M's
(~80 candies per pair)
• Paper/plastic cup •

Paper towel Procedure:

1. Count your nuclei
(M&M candies). Write
that number in the

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Life Answer Key

data table under the heading "Number of Radioactive ..."

Radioactive Decay A Sweet Simulation of Half-Life

Predict what happens to an element when it undergoes alpha decay. Explain the concept of half life, including the random nature of it. Begin to gain an understanding of the forces that work to hold an atomic

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nucleus together
(strong nuclear force)
and the forces that
work to break it apart
(Coulomb, i.e. electric
charge, force).

Alpha Decay - Half Life | Radiation - PhET Interactive ...

This Radioactive
Decay: A Sweet
Simulation of a Half-life
Lesson Plan is suitable
for 9th - 12th Grade.
Students demonstrate
rates of decay of

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A Sweet Simulation Of Half Life Answer Key
Unstable nuclei can be measured. They understand ratios and multiplication of fractions.

Radioactive Decay: A Sweet Simulation of a Half-life ...

Description: With the Half-Life Laboratory, students gain a better understanding of radioactive dating and half-lives. Students are able to visualize and model what is meant

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Life Answer Key

by the half-life of a reaction. By extension, this experiment is a useful analogy to radioactive decay and carbon dating.

Students use M&M's (or pennies and puzzle pieces) to demonstrate

...

Half-Life : Paper, M&M's, Pennies, or Puzzle Pieces - ANS

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RADIOACTIVE DECAY A SWEET SIMULATION OF

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HALF LIFE ANSWER

This decay is random, and it depends on the nature of the element: this is radioactivity.

The half-life of a given isotope is the amount of time it takes for half of the atoms in a sample to decay. This simulation allows you to address, using three different isotopes, notions like radioactive decay, carbon dating, half life constant.

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Radioactive Decay: A Sweet Simulation of Half-Life Introduction
Radioactive decay rates are measured in half-lives. A half-life is the time required for one half of a radioisotope's nuclei to decay into its products. For example, the half-life of the radioisotope

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strontium-90 is 29 years.

Radioactive pennies **- B4204: Ms. Yang**

Radioactive Decay: A Sweet Simulation of Half-Life. Objective: In this simulation, you will use small pieces of candy marked on one side. They will be your radioactive "nuclei." You also will need a paper plate or paper towel on which to place your "nuclei."

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Procedure: Radioactive nuclei will be those candies with the marked side up.

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