

## **RADIOACTIVE DECAY LAB**



*Radioactive elements slowly decay over time. The half-life of a radioactive substance is the time it takes for one half of the sample to decay. By studying the number of elements that have decayed in a given rock sample and comparing that to the element's half-life, we can get an idea of the age of that rock sample.*

**Purpose:** To simulate the process of radioactive decay and to illustrate the concept of half-life.

### **Materials:**

100 two-sided chips  
Plastic box with lid  
Transparent chips

Two different colored pens or pencils  
Calculator

### **Procedure:**

1. Verify that you have a total of 100 two-sided chips by making 10 groups of 10.
2. Place all 100 two-sided chips in your box with the RED side UP.
3. For the experiment, we're making the following assumptions:
  - When the YELLOW side is face up, the atom has decayed.
  - When the RED side is face up, the atom has not yet decayed.
4. Place the lid on the box and shake it ONE time.
5. Open the lid and remove all the chips that are YELLOW side up.
6. Record in your data table how many decayed chips (YELLOW side up) and undecayed chips (RED side up) you have left after each shake.
7. Replace each yellow chip you removed with one of the transparent colored chips provided in the middle of the table.
8. Repeat steps 4, 5, 6 & 7 until you've run out of red "undecayed" chips or until you have finished 10 trials.
9. One student should see your teacher to record your data at the computer. The other student should clean up your supplies.
10. When instructed, record the class averages for each trial in your data table at your teacher's direction.
11. Graph your data. On your graph, connect YOUR group's data with in one color. Graph the class average with another color.
12. Complete the reflection questions.



# Activity 1 Radioactive Decay Lab Student Guide

**TD Snyder**



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**Resources in Education** ,1997      *Science Spectrum* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03      *Computer Assisted Learning* '83 P. R. Smith,2014-06-28 CAL 83 was organised by the Council for Educational Technology in conjunction with Pergamon Press The selected proceedings include papers from four broad themes fundamental aspects of CAL case studies in CAL hardware for CAL and future developments and also two keynote papers by Professors Bork and Alty respectively The increasing interest in CAL applications in schools is evident from the number of related papers      **Transactions of the American Nuclear Society** American Nuclear Society,1958

FrimThom Integrated Science for Senior High Schools Thomas Kofi Arboh,Emmanuel Yaw Frimpong,2025-04-29 The diversity of teaching skills and methods as applied in the classroom mostly results in the variation in understanding on the part of the learner Not having a clear cut material for teaching also puts pressure on the teacher when it comes to gathering information to deliver in the classroom Having a more simplified and straightforward text material without compromising on value of content is the main aim of this book Materials are well selected to make learning and teaching easier for the user of this book The senior high school student is the main targeted end user of this book However it can also serve as a reference material for other levels of learning The content is based on the Ghanaian and West African syllabus for senior high education This integrated science textbook has its content organized in sections units and academic year Year 1 content provides foundation tutoring Year 2 is built on the content of year 2 likewise year 3 has its content built on that of year 2 This approach renders a vertical upward systematic approach to learning that enables the learner to build upon previous knowledge Reference materials tables charts and units are also provided to assist the learner in doing research or performing experiments It is our hope that this textbook will satisfy teachers and learners at the senior high level of education in the area of integrated science comprising of basic biology physics chemistry agriculture and indigenous technology      Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction      **Journal of Geological Education** ,1977      **Resources in Education** ,1997      Instructor's Guide to Accompany College Mathematics Through Applications Peterson,Wagner,1999-02

**Holt Science and Technology** Holt Rinehart & Winston,2004-02      *An Introduction to Physics* Harvard Project Physics,1968      **The Software Encyclopedia 2001** ,2001      **Catalog Issue** University of Colorado,1974      **Cell Biology and Genetics** Cecie Starr,Ralph Taggart,1998 Cell Biology and Genetics covers Chapter 1 Unit I The Cellular Basis of Life and Unit II Principles of Inheritance and contains a customized table of contents and the back matter from Biology The Unity

and Diversity of Life The Cell Biology Genetics volume includes characteristics of life scientific methods basic chemistry cell biology metabolism mitosis and meiosis classical genetics human genetics molecular genetics recombinant DNA and genetic engineering

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