

# Module 4 Honors Radioactive Decay Lab

Instructions: Complete each section of this report and answer all questions in complete sentences for full credit. Use the lab [grading rubric](#) before you begin.

Click here to watch the [lab completion video](#). We show the entire lab simulation (so you can record the data; don't need to be logged into the course) and explain the conclusion/post lab

## Procedure

1. Place 200 candies in the shoebox\*, lettered sides up. The candies represent atoms of carbon-14.
2. Cover the box and shake it for three seconds. This represents one interval of time.
3. Remove the lid and take out the candies (atoms) that are upside down (not showing letters). These pieces are the carbon-14 atoms that decayed during the time interval.
4. Count and record in a data table the number of decayed atoms and the number of remaining, not decayed, atoms.
5. Repeat steps 2 to 4 until all atoms have decayed or you have reached 30 seconds on the data table.
6. Repeat the entire experiment for a second trial and record all data.

\*If easier, you can use this online [coin flipper](#) to collect the data in lieu of obtaining coins. **Be sure to select NO for "show cumulative stats". We do NOT want an accumulation.** (Use this [video](#) explaining how to use the coin flipper)

## Data

# Radioactive Decay Lab Answers

**Thomas Griffiths**



## Radioactive Decay Lab Answers:

Physics Lab Experiments Matthew French, 2016-10-07 This new book will guide both the experimentalist and theoretician through their compulsory laboratory courses forming part of an undergraduate physics degree It shows students and interested readers the value and beauty within a carefully planned and executed experiment and will help them to develop the skills to carry out experiments themselves

Take-Home Chemistry Michael Horton, 2011 For high school science teachers homeschoolers science coordinators and informal science educators this collection of 50 inquiry based labs provides hands on ways for students to learn science at home safely Author Michael Horton promises that students who conduct the labs in Take Home Chemistry as supplements to classroom instruction will enhance higher level thinking improve process skills and raise high stakes test scores

**Nuclear Science Abstracts**, 1975-07

Report - Federal Radiation Council Federal Radiation Council (U.S.), 1960

*ChemDiscovery Lab Manual* Olga I. Agapova, 2002

Scions Benjamin Lightfoot, 2014-01-14 Scions is the second exciting chapter of the popular space adventure legend ReGenesis An Alternative Future In ReGenesis six astronauts leave Earth in 2025 in a light speed ship enroute to a planet outside the Milky Way galaxy Their intended destination Nyvar is believed to have intelligent life After 13 centuries in hybernation on their journey the astronauts age only one year They awake to find that because of sabotage to the ship s computer the Revelation had returned them to Earth Earth in the 34th century Our travelers soon learn that Earth in 3339 boasts miraculous advances in technology medicine law enforcement and in government The United States rules the planet with an iron hand and war and crime are practically nonexistent however freedom has been redefined The six astronauts struggle to adapt to the new Earth and two of them venture from Earth to become the first galaxy adventurers of the 34th century Scions tells the tale of how Jake and Susan and their two highly advanced androids launch from Earth in the re engined 10xL Revelation starship enroute to the Alpha Centauri star system 4 3 light years from Earth On Mond a planet of Alpha Centauri A they discover a world much like Earth but find evidence that although intelligent life had existed there all animal life now appears to be extinct Radiation pervades the atmosphere As the astronaut team explores the lowlands the woodlands and the abandoned cities they find evidence that intelligent life may still exist but where is it Suddenly the team is ambushed and captured becoming the prisoners of an underground civilization survivors of a planet wide nuclear chain reaction that occurred centuries before Jake and Susan and their two androids George and Gracie find themselves in a life or death situation that could eventually affect the Earth and the entire galaxy On Mond they discover two races of humans who have been at war with each other for centuries The Zyconians indigenous to the planet were a peaceful people until the arrival of the Staatians evil war mongering aliens from another star system The Staatians who hold the astronaut team as prisoners are determined to be the ruling race on Mond Now that they have learned of Earth and have impounded key pieces of Earth s advanced technology they threaten to extend their rule across the galaxy George and Gracie the androids become the heroes of the story as they display their

super human strength speed and mental CPU abilities Scions is a fun and exciting adventure in space with challenging sub plots humor and surprises Benjamin Lightfoot *Calculus* David A. Smith, Lawrence C. Moore, 1996-12 **Scientific and Technical Aerospace Reports** ,1995 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1977 **Announcer** American Association of Physics Teachers, 1997 *Ahead of the Curve* Shane Crotty, 2003-06 A biography of one of America's most famous and important molecular biologists **Energy Research Abstracts** ,1993 *Precalculus Concepts in Context* Judy Flagg Moran, Marsha Jane Davis, Mary E. Murphy, 1996 When these authors found that conventional textbooks just weren't meshing well with the graphing technology they were using in their classes they went to the drawing board *Precalculus Concepts in Context* takes a fresh look at the content of precalculus and offers students a different approach to learning mathematics It begins with the real world of experience music commerce psychology natural science daily news etc and uncovers the mathematics already present The study of each new topic begins by examining the concept in a context from which the topic naturally arises **Mighty Bad Land** Bruce Luyendyk, 2023-05-30 A tale of grit and real teamwork in the wilds of Antarctica when the hunger for knowledge reigns supreme Anything can happen in a pure wilderness experienced by few humans a place where unseen menace waits everywhere This story is an unembellished account of a scientist and his team exploring the last place on Earth But unlike most recent books on Antarctica the reader becomes embedded with geologist Bruce Luyendyk's team They share the challenges companionship failures bravery and success brought to light from scientific research pursued in an unforgiving place Marie Byrd Land or Mighty Bad Land The geologists make surprising discoveries Luyendyk realizes that vast submarine plateaus in the southwest Pacific are continental pieces that broke away from the Marie Byrd Land sector of Gondwana He coined Zealandia to describe this newly recognized submerged continent Only the tops of its mountains poke above sea level to host the nation of New Zealand This stunning revelation of a submerged eighth continent promises economic and geopolitical consequences reverberating into the twenty first century The story occurs in the 1990s and fills a gap in the timeline of Antarctic exploration between the Heroic Age the age of military exploration and before the modern era of science Danger is exponentially greater isolation a constant threat without GPS satellite phones and the internet As the expedition's leader Luyendyk stands up to his demons that surface under the extreme duress of his experience like nearly losing two team members *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center, 1977 *Nuclear News* ,2008 **General, Organic, and Biochemistry Study Guide** Marcia L. Gillette, Ira Blei, Wendy Gloffke, George Odian, 2006-01-27 This study guide provides reader friendly reinforcement of the concepts covered in the textbook Features include Chapter outlines Are you able to Worked text problems Fill ins Test yourself Concept maps Can also be used for Blei and Odian's Organic and Biochemistry *Physics Laboratory Manual* David H. Loyd, 1989-11 *Geoscience Research and Outreach* Vincent C. H. Tong, 2013-08-23 From

energy and water resources to natural disasters and from changing climatic patterns to the evolution of the Earth's deep interior geoscience research affects people's lives in many ways and on many levels. This book offers a stimulating cross-disciplinary perspective on the important relationship between geoscience research and outreach activities for schools and for the general public. The contributors, academics, research scientists, science educators, and outreach program educators describe and evaluate outreach programs from around the world. A section entitled Field-based Approaches includes a chapter describing an initiative to engage Alaskan communities and students in research and another on problem-based learning in the field setting. The Online Approaches section discusses ways to connect students and scientists using online forums, use of the web, and social media, including the United Nations University and its experience with the design of a web magazine featuring geoscience research and video clips on marine geoscience created by students and scientists. The section on Workshop and Laboratory-based Approaches includes a chapter on teaching geochronology to high school students and another describing an extracurricular school activity program on meteorology. The Program Design section presents chapters on Integrating Geoscience Research in Primary and Secondary Education on ways to bridge research with science education at the high school level and on use of online geoscience data from the Great Lakes. The concluding section, Promoting Research-enhanced Outreach, offers chapters on Geoscience Outreach Education with the local community by a leading research-intensive university and on the use of research to promote action in Earth science professional development for schoolteachers. Geoscience Research and Outreach: Schools and Public Engagement will benefit geoscience researchers who wish to promote their work beyond academia. It offers guidance to those seeking research funding from agencies which increasingly request detailed plans for outreach activities in research proposals. Policymakers, educators, and scientists working in museums, learned societies, and public organizations who wish to widen participation will also find this book useful. Together with the companion volume *Geoscience Research and Education: Teaching at Universities*, this book showcases the key role that geoscience research plays in a wide spectrum of educational settings. Uranium Wars Amir D.

Aczel, 2025-08-22 Called one of our best science popularizers by Publishers Weekly, Amir D. Aczel tackles the cause of one of last century's most destructive events: the scientific discovery of nuclear power. Drawing on his rich storytelling skills, Aczel presents the fascinating and suspenseful story of the scientists who first uncovered the potential of uranium. *Uranium Wars* takes the reader on a whirlwind tour of 1920s Europe where the scientific elite of the day were embroiled in a fierce rivalry to achieve nuclear fission. Leading us to an understanding of both the processes that take place inside a uranium nucleus and its destructive power are the brilliant men and women at the heart of the race: mammoth figures such as Marie Curie, Enrico Fermi, and Lise Meitner. Enmeshed in the story of scientific intrigue is the complex and ongoing story of uranium itself, which Aczel presents as a dynamic, dual-natured force capable of providing both abundant, usable energy and generating unfathomable destructive power. From the nuclear programs in the Middle East to plans for nuclear reactors at home, the

element uranium is never far from today's headlines

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- Interactive and Gamified eBooks

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