

Name: _____

Date: _____

Student Exploration: Half-life

Vocabulary: daughter atom, decay, Geiger counter, half-life, isotope, neutron, radiation, radioactive, radiometric dating

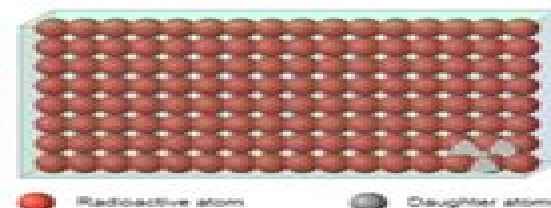
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Have you ever made microwave popcorn? If so, what do you hear while the popcorn is in the microwave? Yes, I hear the kernels popping in the bag.
2. If you turn the microwave on for two minutes, is the rate of popping always the same, or does it change? Explain. The rate of popping is not always the same because when you first put the bag of popcorn in and start the microwave, there is not a lot of popping, but when the contents of the bag begin to heat up, the popping increases. By the end of the cooking session, all of the kernels should be popped so there is no more popping.

Gizmo Warm-up

Like an unpopped kernel in the microwave, a **radioactive** atom can change at any time. Radioactive atoms change by emitting **radiation** in the form of tiny particles and/or energy. This process, called **decay**, causes the radioactive atom to change into a stable **daughter atom**.

The *Half-life* Gizmo™ allows you to observe and measure the decay of a radioactive substance. Be sure the sound is turned on and click **Play** (▶).



1. What do you see and hear? There is a static sort of popping sound as the atoms turn from red to bluish gray.

Note: The clicking sound you hear comes from a **Geiger counter**, an instrument that detects the particles and energy emitted by decaying radioactive atoms.

Student Exploration Half Life

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Student Exploration Half Life:

The Half-Life of Deindustrialization Sherry Lee Linkon, 2018-03-23 Examines how contemporary American working class literature reveals the long term effects of deindustrialization on individuals and communities

Half-Life Frank Close, 2015-02-03 It was at the height of the Cold War in the summer of 1950 when Bruno Pontecorvo mysteriously vanished behind the Iron Curtain Who was he and what caused him to disappear Was he simply a physicist or also a spy and communist radical A protege of Enrico Fermi Pontecorvo was one of the most promising nuclear physicists in the world He spent years hunting for the Higgs boson of his day the neutrino a nearly massless particle thought to be essential to the process of particle decay His work on the Manhattan Project helped to usher in the nuclear age and confirmed his reputation as a brilliant physicist Why then would he disappear as he stood on the cusp of true greatness perhaps even the Nobel Prize In Half Life physicist and historian Frank Close offers a heretofore untold history of Pontecorvo s life based on unprecedented access to Pontecorvo s friends and family and the Russian scientists with whom he would later work Close takes a microscope to Pontecorvo s life combining a thorough biography of one of the most important scientists of the twentieth century with the drama of Cold War espionage With all the elements of a Cold War thriller classified atomic research an infamous double agent a possible kidnapping by Soviet operatives Half Life is a history of nuclear physics at perhaps its most powerful when it created the bomb Physics at perhaps its most powerful when it created the bomb

Learning Analytics in the Classroom Jason Lodge, Jared Horvath, Linda Corrin, 2018-10-03 Learning Analytics in the Classroom presents a coherent framework for the effective translation of learning analytics research for educational practice to its practical application in different education domains Highlighting the real potential of learning analytics as a way to better understand and enhance student learning and with each chapter including specific discussion about what the research means in the classroom this book provides educators and researchers alike with the tools and frameworks to effectively make sense of and use data and analytics in their everyday practice This volume is split into five sections all of which relate to the key themes in understanding learning analytics through the lens of the classroom broad theoretical perspectives understanding learning through analytics the relationship between learning design and learning analytics analytics in the classroom and the impact it can and will have on education implementing analytics and the challenges involved Bridging the gap between research theory and practice Learning Analytics in the Classroom is both a practical tool and an instructive guide for educators and a valuable addition to researchers bookshelves A team of world leading researchers and expert editors have compiled a state of the art compendium on this fascinating subject and this will be a critical resource for the evolution of this field into the future

Art & Science J. Paul Getty Museum, 2013-07-23 For the first time the award winning Education Department of the J Paul Getty Museum is making one of its much lauded K 12 curricula available nationwide in an attractive and inexpensive print format Art Science was developed by the Getty s expert educators scientists

curators and conservators and tested by classroom teachers and it connects to national and California state standards Teachers and parents will find engaging lessons and activities divided into beginning intermediate and advanced levels for step by step learning Art Science mines the treasures of the Getty Museum to explore the many intersections of the visual arts with scientific disciplines Full color images of antiquities decorative arts drawings manuscripts painting photography and sculpture illuminate lesson plans about for example The laws of physics that keep a bronze sculpture of a juggler from tipping over The science that allows photographers to manipulate light and capture images on paper The processes of radiation and convection that turn clay into porcelain Scientific observation of the natural world as the subject for art How scientists removed 2 000 years of oxidation and encrustation to reveal a priceless ancient sculpture The curriculum also contains a trove of resources including handouts Questions for Teaching a timeline glossary and list of print and web sources for further research There are also links to additional related lessons and images available on the Getty website The full page color images and special lay flat binding of Art Science make it ideal for use with a digital document reader

Called to Serve Charles Frazer Hermann,Sally Dee Wade,2017-09-11 In Called to Serve founding director Charles F Hermann and writer Sally Dee Wade chronicle the twenty year history of the George Bush School of Government and Public Service which has rapidly evolved into one of the nation s major professional graduate schools of public and international affairs The story traces the progress of the Bush School from its initial challenges to secure funding students and professors to its departure from the College of Liberal Arts as an independent unit with its own dean and faculty and through the creation of its current curricula and policy oriented research institutes Insider stories and candid photographs illustrate how President Bush s focused personal interest and involvement with the school and its students have contributed to the many developments and successes that the Bush School has enjoyed With carefully researched narrative and absorbing behind the scenes details Called to Serve documents the first two decades of the Bush School s brief but significant history and looks to the promising future that awaits this widely respected academic enterprise

The Purposeful Graduate Tim Clydesdale,2015-05-06 We all know that higher education has changed dramatically over the past two decades Historically a time of exploration and self discovery the college years have been narrowed toward an increasingly singular goal career training and college students these days forgo the big questions about who they are and how they can change the world and instead focus single mindedly on their economic survival In *The Purposeful Graduate* Tim Clydesdale elucidates just what a tremendous loss this is for our youth our universities and our future as a society At the same time he shows that it doesn t have to be this way higher education can retain its higher cultural role and students with a true sense of purpose of personal cultural and intellectual value that cannot be measured by a wage can be streaming out of every one of its institutions The key he argues is simple direct systematic and creative programs that engage undergraduates on the question of purpose Backing up his argument with rich data from a Lilly Endowment grant that funded such programs on eighty eight different campuses he shows that

thoughtful engagement of the notion of vocational calling by students faculty and staff can bring rich rewards for all those involved greater intellectual development more robust community involvement and a more proactive approach to lifelong goals Nearly every institution he examines from internationally acclaimed research universities to small liberal arts colleges is a success story each designing and implementing its own program that provides students with deep resources that help them to launch flourishing lives Flying in the face of the pessimistic forecast of higher education s emaciated future Clydesdale offers a profoundly rich alternative one that can be achieved if we simply muster the courage to talk with students about who they are and what they are meant to do The High School Teacher ,1927 **NASA EP.** United States. National Aeronautics and Space Administration,1969 *Understanding Physics* David Cassidy,Gerald Holton,James Rutherford,2002-07-31 Laboratory Manual to accompany Understanding Physics *The Impact of Reform Instruction on Student Mathematics Achievement* Thomas A. Romberg,Mary C. Shafer,2008-08-15 Summarizing data derived from a study of the implementation of one standards based middle school curriculum program Mathematics in Context this book demonstrates the challenges of conducting comparative longitudinal research in the reality of school life Space Science ,1969 **The Best Writing on Mathematics 2014** Mircea Pitici,2015 An anthology of the year s finest writing on mathematics from around the world featuring promising new voices as well as some of the foremost names in mathematics

Hands-On Math Projects with Real-Life Applications, Grades 3-5 Judith A. Muschla,Gary R. Muschla,2010-12-17 Each easy to implement project includes background information for the teacher project goals math skills needed a student guide with tips and strategies and reproducible worksheets Projects are designed to help students meet the National Council of Teachers of Mathematics Standards and Focal Points and chapters are organized to show how math relates to language arts science etc demonstrating the importance of math in all areas of real life In Part I Chapter 1 offers an overview of how to incorporate math projects in the classroom Chapter 2 provides a variety of classroom management suggestions as well as teaching tips and Chapter 3 offers ways teachers may evaluate project work Each chapter also contains several reproducibles that are designed to help students master the procedural skills necessary for effective collaboration while working on projects Part II The Projects is divided into six separate sections Section 1 Math and Science Section 2 Math and Social Studies Section 3 Math and Language Section 4 Math and Art and Music Section 5 Math and Fun and Recreation Section 6 Math and Life Skills **e-Learning, e-Education, and Online Training** Shuai Liu,Guanglu Sun,Weina Fu,2020-12-11 This 2 volume set constitutes the proceedings of the 6th International Conference on e Learning e Education and Online Training eLEOT 2020 held in Changsha China in June 2020 The conference was held virtually due to the COVID 19 pandemic The 68 full papers presented were carefully reviewed and selected from 141 submissions They focus on most recent and innovative trends and new technologies in for educational modernization such as artificial intelligence and big data The theme of eLEOT 2020 was Education with New Generation Information Technology **Tampa Bay Magazine** ,2008-07 Tampa Bay

Magazine is the area's lifestyle magazine For over 25 years it has been featuring the places people and pleasures of Tampa Bay Florida that includes Tampa Clearwater and St Petersburg You won't know Tampa Bay until you read Tampa Bay Magazine

Integrated Mathematics Holt McDougal,1998 **Learning and Teaching with Maps** Patrick Wiegand,2006 This title provides a comprehensive account of how young children learn with maps and how teachers can best teach them A particular feature of the book is the integration of digital and conventional mapping

The Virgins: A Novel Pamela Erens,2013-08-06 The Virgins is the story of Aviva Rossner and Seung Jung's erotic awakening at Auburn Academy reimagined in richly detailed episodes by their classmate Bruce a once embittered voyeur now repentant narrator whose envy spurs the novel's tragic end A New York Times Editor's Choice selection A Chicago Tribune Editor's Choice selection A Best Book of 2013 The New Yorker A Best Book of 2013 The New Republic A Critics Choice selection for 2013 Salon A Best Indie Title of 2013 Library Journal One of Redbook's Top Ten Beach Reads of 2013 One of O Magazine's Ten Titles to Pick Up Now August 2013 Featured in The Millions's Most Anticipated List 2013 A This Week's Hot Reads selection The Daily Beast A Vanity Fair Hot Type selection The Virgins was a finalist for the John Gardner Award Publishers Weekly named The Virgins one of the best boarding school books of all time It's 1979 and Aviva Rossner and Seung Jung are notorious at Auburn Academy They're an unlikely pair at an elite East Coast boarding school she's Jewish he's Korean American and hardly shy when it comes to their sexuality Aviva is a formerly bookish girl looking for liberation from an unhappy childhood Seung is an enthusiastic dabbler in drugs and a covert rebel against his demanding immigrant parents In the minds of their titillated classmates particularly that of Bruce Bennett Jones the couple lives in a realm of pure indulgent pleasure But as is often the case their fabled relationship is more complicated than it seems despite their lust and urgency their virginity remains intact and as they struggle to understand each other the relationship spirals into disaster The Virgins is the story of Aviva and Seung's descent into confusion and shame as reimagined in richly detailed episodes by their classmate Bruce a once embittered voyeur turned repentant narrator With unflinching honesty and breathtaking prose Pamela Erens brings a fresh voice to the tradition of the great boarding school novel

Resources in Education ,1997 *Sexualities and Communication in Everyday Life* Karen E. Lovaas,Mercilee M. Jenkins,2007 Excerpts from foundational work recent journal articles and pieces written for this text about the role of communication in the construction and performance of sexualities in interpersonal contexts and public discourses

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Student Exploration Half Life**

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