

Student Exploration: Nuclear Reactions

[Note to teachers and students: This Gizmo was designed as a follow-up to the Nuclear Decay Gizmo. We recommend doing that activity before trying this one.]

Vocabulary: chain reaction, CNO cycle, catalyst, deuterium, electron volt, fission, fusion, isotope, nuclear reaction, positron, positron emission, proton-proton chain

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

The chart to the right gives the **isotope** name, element name, number of protons, and number of neutrons of three isotopes.

| Isotope | Protons | Neutrons |
|-------------|---------|----------|
| Hydrogen-1 | 1 | 0 |
| Carbon-12 | 6 | 6 |
| Uranium-235 | 92 | 143 |

1. What do you notice about the isotope number and the sum of protons and neutrons?

They all vary in numbers

2. The element symbol for uranium-238 is $^{238}_{92}\text{U}$. This means U-238 has a total mass of 238 and contains 92 protons. Write the element symbols for the isotopes in the table:

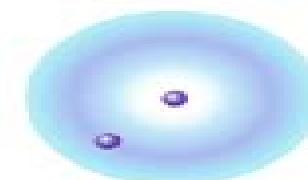
Hydrogen-1 $1/1\text{H}$

Carbon-12 $12/6\text{C}$

Uranium-235 $235/92\text{U}$

Gizmo Warm-up

The Nuclear Reactions Gizmo simulates a particle accelerator. Particle accelerators speed up atoms to very high velocities, then crash the atoms together with enough energy to cause changes called **nuclear reactions**. There are three particle beams available in this Gizmo, protons, neutrons, and helium-3 nuclei.



1. Click **Fire Proton** to engage the first particle beam.

What happens? A positron flew out.

2. Colliding particles don't always react. Click **Reset**, and then click **Fire neutron**.

A. Does a reaction occur? no

B. Explain: the fire neutron flew through.

Gizmo Student Exploration Nuclear Decay Answer Key

Emily Lakdawalla



Gizmo Student Exploration Nuclear Decay Answer Key

Stable Isotope Ecology Brian Fry, 2007-01-15 A solid introduction to stable isotopes that can also be used as an instructive review for more experienced researchers and professionals The book approaches the use of isotopes from the perspective of ecological and biological research but its concepts can be applied within other disciplines A novel step by step spreadsheet modeling approach is also presented for circulating tracers in any ecological system including any favorite system an ecologist might dream up while sitting at a computer The author's humorous and lighthearted style painlessly imparts the principles of isotope ecology The online material contains color illustrations spreadsheet models technical appendices and problems and answers

Essentials of Metaheuristics (Second Edition) Sean Luke, 2012-12-20 Interested in the Genetic Algorithm Simulated Annealing Ant Colony Optimization *Essentials of Metaheuristics* covers these and other metaheuristics algorithms and is intended for undergraduate students programmers and non experts The book covers a wide range of algorithms representations selection and modification operators and related topics and includes 71 figures and 135 algorithms great and small Algorithms include Gradient Ascent techniques Hill Climbing variants Simulated Annealing Tabu Search variants Iterated Local Search Evolution Strategies the Genetic Algorithm the Steady State Genetic Algorithm Differential Evolution Particle Swarm Optimization Genetic Programming variants One and Two Population Competitive Coevolution N Population Cooperative Coevolution Implicit Fitness Sharing Deterministic Crowding NSGA II SPEA2 GRASP Ant Colony Optimization variants Guided Local Search LEM PBIL UMDA cGA BOA SAMUEL ZCS XCS and XCSF

Maternal-Newborn Nursing Robert Durham, Linda Chapman, 2013-10-15 A better way to learn maternal and newborn nursing This unique presentation provides tightly focused maternal newborn coverage in a highly structured text

<https://books.google.com/books?id=PEZdDwAAQBAJ&pri...> , **Wandering Significance** Mark Wilson, 2008 Mark Wilson presents a highly original and broad ranging investigation of the way we get to grips with the world conceptually and the way that philosophical problems commonly arise from this He combines traditional philosophical concerns about human conceptual thinking with illuminating data derived from a large variety of fields including physics and applied mathematics cognitive psychology and linguistics *Wandering Significance* offers abundant new insights and perspectives for philosophers of language mind and science and will also reward the interest of psychologists linguists and anyone curious about the mysterious ways in which useful language obtains its practical applicability Publisher's description

The Design and Engineering of Curiosity Emily Lakdawalla, 2018-03-27 This book describes the most complex machine ever sent to another planet Curiosity It is a one ton robot with two brains seventeen cameras six wheels nuclear power and a laser beam on its head No one human understands how all of its systems and instruments work This essential reference to the Curiosity mission explains the engineering behind every system on the rover from its rocket powered jetpack to its radioisotope

thermoelectric generator to its fiendishly complex sample handling system Its lavishly illustrated text explains how all the instruments work its cameras spectrometers sample cooking oven and weather station and describes the instruments abilities and limitations It tells you how the systems have functioned on Mars and how scientists and engineers have worked around problems developed on a faraway planet holey wheels and broken focus lasers And it explains the grueling mission operations schedule that keeps the rover working day in and day out

Information Arts Stephen Wilson,2003-02-28 An introduction to the work and ideas of artists who use and even influence science and technology A new breed of contemporary artist engages science and technology not just to adopt the vocabulary and gizmos but to explore and comment on the content agendas and possibilities Indeed proposes Stephen Wilson the role of the artist is not only to interpret and to spread scientific knowledge but to be an active partner in determining the direction of research Years ago C P Snow wrote about the two cultures of science and the humanities these developments may finally help to change the outlook of those who view science and technology as separate from the general culture In this rich compendium Wilson offers the first comprehensive survey of international artists who incorporate concepts and research from mathematics the physical sciences biology kinetics telecommunications and experimental digital systems such as artificial intelligence and ubiquitous computing In addition to visual documentation and statements by the artists Wilson examines relevant art theoretical writings and explores emerging scientific and technological research likely to be culturally significant in the future He also provides lists of resources including organizations publications conferences museums research centers and Web sites

Using Research and Reason in Education Paula J. Stanovich,Keith E. Stanovich,2003 As professionals teachers can become more effective and powerful by developing the skills to recognize scientifically based practice and when the evidence is not available use some basic research concepts to draw conclusions on their own This paper offers a primer for those skills that will allow teachers to become independent evaluators of educational research

[Hello Cruel World](#) Kate

Bornstein,2011-01-04 Celebrated transsexual trailblazer Kate Bornstein has with more humor and spunk than any other ushered us into a world of limitless possibility through a daring re envisionment of the gender system as we know it Here Bornstein bravely and wittily shares personal and unorthodox methods of survival in an often cruel world A one of a kind guide to staying alive outside the box Hello Cruel World is a much needed unconventional approach to life for those who want to stay on the edge but alive Hello Cruel World features a catalog of 101 alternatives to suicide that range from the playful moisturize to the irreverent shatter some family values to the highly controversial Designed to encourage readers to give themselves permission to unleash their hearts harmless desires the book has only one directive Don t be mean It is this guiding principle that brings its reader on a self validating journey which forges wholly new paths toward a resounding decision to choose life Tenderly intimate and unapologetically edgy Kate Bornstein is the radical role model the affectionate best friend and the guiding mentor all in one

Statistical Mechanics James Sethna,2006-04-07 In each generation

scientists must redefine their fields abstracting simplifying and distilling the previous standard topics to make room for new advances and methods Sethna's book takes this step for statistical mechanics a field rooted in physics and chemistry whose ideas and methods are now central to information theory complexity and modern biology Aimed at advanced undergraduates and early graduate students in all of these fields Sethna limits his main presentation to the topics that future mathematicians and biologists as well as physicists and chemists will find fascinating and central to their work The amazing breadth of the field is reflected in the author's large supply of carefully crafted exercises each an introduction to a whole field of study everything from chaos through information theory to life at the end of the universe

Makers Chris Anderson, 2012-10-02
3D Robotics co founder and bestselling author Chris Anderson takes you to the front lines of a new industrial revolution as today's entrepreneurs using open source design and 3D printing bring manufacturing to the desktop In an age of custom fabricated do it yourself product design and creation the collective potential of a million garage tinkerers and enthusiasts is about to be unleashed driving a resurgence of American manufacturing A generation of Makers using the Web's innovation model will help drive the next big wave in the global economy as the new technologies of digital design and rapid prototyping gives everyone the power to invent creating the long tail of things

New Media Leah A. Lievrouw, Sonia M. Livingstone, 2009
Quantum Mind and Social Science Alexander Wendt, 2015-04-23 A unique contribution to the understanding of social science showing the implications of quantum physics for the nature of human society

Technological Slavery (Large Print 16pt) Theodore J. Kaczynski, David Skrbina, 2011-02 Theodore Kaczynski saw violent collapse as the only way to bring down the techno industrial system and in more than a decade of mail bomb terror he killed three people and injured 23 others One does not need to support the actions that landed Kaczynski in supermax prison to see the value of his essays disabusing the notion of heroic technology while revealing the manner in which it is destroying the planet For the first time readers will have an uncensored personal account of his anti technology philosophy including a corrected version of the notorious Unabomber Manifesto Kaczynski's critique of anarcho primitivism and essays regarding the Coming Revolution

Lewis's Medical-Surgical Nursing Diane Brown, Helen Edwards, Lesley Seaton, Thomas Buckley, 2017-03-25 Perfect for Undergraduate Nursing Students Postgraduate Specialist Nursing Pathways Advanced Medical Surgical Nursing TAFE Bachelor of Nursing Program Lewis's Medical Surgical Nursing Assessment and Management of Clinical Problems 4th Edition is the most comprehensive go to reference for essential information about all aspects of professional nursing care of patients Using the nursing process as a framework for practice the fourth edition has been extensively revised to reflect the rapid changing nature of nursing practice and the increasing focus on key nursing care priorities Building on the strengths of the third Australian and New Zealand edition and incorporating relevant global nursing research and practice from the prominent US title Medical Surgical Nursing 9th Edition Lewis's Medical Surgical Nursing 4th Edition is an essential resource for students seeking to understand the role of the professional nurse in the

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The Road to Revolution Theodore John Kaczynski,2008 *Invisible Sun* Charles Stross,2021-09-28 The alternate timelines of Charles Stross Empire Games trilogy have never been so entangled than in Invisible Sun the techno thriller follow up to Dark State as stakes escalate in a conflict that could spell extermination for humanity across all known timelines An inter timeline coup d tat gone awry A renegade British monarch on the run through the streets of Berlin And robotic alien invaders from a distant timeline flood through a wormhole wreaking havoc in the USA Can disgraced worldwalker Rita and her intertemporal extraordaire agent of a mother neutralize the livewire contention before it s too late At the Publisher s request this title is being sold without Digital Rights Management Software DRM applied

Visiting Mrs. Nabokov Martin Amis,2011-01-26 A tantalizing collection of classic essays from one of the most gifted writers of his generation The brainy sarcastic tender intelligence at the center of these pieces can make you laugh out loud they can also move you to tears People Martin Amis brings the same megawatt wit wickedly acute perception and ebullient wordplay that characterize his novels He encompasses the full range of contemporary politics and culture high and low while also traveling to China for soccer with Elton John and to London s darts crazy pubs in search of the perfect throw Throughout he offers razor sharp takes on such subjects as American politics If history is a nightmare from which we are trying to awake then the Reagan era can be seen as an eight year blackout Numb pale unhealthily dreamless eight years of Do Not Disturb Chess Nowhere in sport perhaps in human activity is the gap between the tryer and the expert so astronomical My chances of a chess brilliancy are the chances of a lab chimp and a type writer producing King Lear His fascination with the observable world is utterly promiscuous he will address a cathedral and a toilet seat with the same peeled eyeball intensity John Updike

Avant-garde Videogames Brian Schrank,2014-04-18 An exploration of avant garde games that builds upon the formal and political modes of contemporary and historical art movements The avant garde challenges or leads culture it opens up or redefines art forms and our perception of the way the world works In this book Brian Schrank describes the ways that the avant garde emerges through videogames Just as impressionism or cubism created alternative ways of making and viewing paintings Schrank argues avant garde videogames create alternate ways of making and playing games A mainstream game channels players into a tightly closed circuit of play an avant garde game opens up that circuit revealing and reveling in its own nature as a game We can evaluate the avant garde Schrank argues

according to how it opens up the experience of games formal art or the experience of being in the world political art He shows that different artists use different strategies to achieve an avant garde perspective Some fixate on form others on politics some take radical positions others more complicit ones Schrank examines these strategies and the artists who deploy them looking closely at four varieties of avant garde games radical formal which breaks up the flow of the game so players can engage with its materiality sensuality and conventionality radical political which plays with art and politics as well as fictions and everyday life complicit formal which treats videogames as a resource like any other art medium for contemporary art and complicit political which uses populist methods to blend life art play and reality as in alternate reality games which adapt Situationist strategies for a mass audience

An Introduction to Mathematical Modelling Neville D. Fowkes, John J. Mahony, 1994-08-16 Demonstrates the challenges and fascinations of mathematical modelling and enables students to develop the skills required to examine real life problems The various techniques and skills are introduced to the reader through the discussion of a variety of carefully selected problems and exercises largely drawn from industrial contexts Maple is used for the problems discussed and for many of the exercises with suggestions and commands provided for readers unfamiliar with this software package

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