

Worksheet- Nuclear Decay

Instructions: Fill in the table below and then use it to figure out what is happening during each type of decay- - alpha (α), beta (β), and gamma (γ)

Parent Isotope	Particle emitted	New, Daughter isotope	Alpha, Beta, or gamma Decay?	# of protons lost or gained by "parent"	Change in mass number
a. ${}_{88}^{226}\text{Ra} \rightarrow$	${}_{2}^{4}\text{He} +$	${}_{86}^{222}\text{Rn}$	Alpha	Lost 2	minus 4
b. ${}_{84}^{214}\text{Po} \rightarrow$	${}_{2}^{4}\text{He} +$	${}_{82}^{210}\text{Pb}$	Alpha	Lost 2	Minus 4
c. ${}_{20}^{47}\text{Ca} \rightarrow$	${}_{-1}^{0}\text{e}^{-} +$	${}_{21}^{47}\text{Sc}$	Beta	Gained 1	None
d. ${}_{64}^{148}\text{Gd} \rightarrow$	${}_{2}^{4}\text{He} +$	${}_{62}^{144}\text{Sm}$	Alpha	Lost 2	Minus 4
e. ${}_{6}^{14}\text{C} \rightarrow$	${}_{-1}^{0}\text{e}^{-} +$	${}_{7}^{14}\text{N}$	Beta	Gained 1	None
f. ${}_{64}^{148}\text{Gd} \rightarrow$	${}_{0}^{0}\gamma +$	${}_{64}^{148}\text{Gd}$	Gamma	None	None

2. What changes take place in the nucleus when an alpha particle is emitted?

2 Protons and 2 Neutrons are lost.

3. What is the identity of an alpha particle?

Helium Nucleus

4. What changes take place in the nucleus when a beta particle is emitted?

Neutron is broken into electron and proton. Proton kept and electron released.

5. Which particle is associated with beta decay?

Electron

6. Fill in the missing parts of these nuclear reactions: (numbers & elements)

a) ${}_{19}^{40}\text{K} \rightarrow$	${}_{-1}^{0}\text{e}^{-} +$	${}_{20}^{40}\text{Ca}$	b) ${}_{90}^{230}\text{Th} \rightarrow$	${}_{2}^{4}\text{He} +$	${}_{88}^{226}\text{Ra}$	c) ${}_{14}^{35}\text{Si} \rightarrow$	${}_{-1}^{0}\text{e}^{-} +$	${}_{15}^{35}\text{P}$
d) ${}_{92}^{238}\text{U} \rightarrow$	${}_{2}^{4}\text{He} +$	${}_{90}^{234}\text{Th}$	e) ${}_{53}^{110}\text{I} \rightarrow$	${}_{2}^{4}\text{He} +$	${}_{51}^{106}\text{Sb} +$	f) ${}_{56}^{140}\text{Ba} \rightarrow$	${}_{-1}^{0}\text{e}^{-} +$	${}_{57}^{140}\text{La}$

7. Write equations for: a) The alpha (α) decay of radon- 198



b) The beta (β) decay of uranium-237



c) Plutonium- 244 undergoes gamma decay



9. Does the identity of an atom change during radioactive decay? Why or why not?

For alpha and beta decay it does because the proton number changes.

During gamma, there is no change of identity, just energy.

10. How does the "Law of Conservation of Matter" explain how you write nuclear equations?

The Law of Conservation of Matter states that matter cannot be created or destroyed. This is why the mass numbers and atomic numbers of the products must add up to equal the mass number and atomic number of the parent isotope.

11. List the 3 types of radiation (α , β , γ) in order from least penetrating to most penetrating.

Alpha= least

Beta= middle

Gamma= most

12. Why would you expect alpha particles to be less able to penetrate materials than beta?

The alpha particle is the largest of the three decay particles, so it will not be able to pass through materials as easily.

Radioactive Decay Answer Key

Aaron Novick



Radioactive Decay Answer Key

Chemistry 2e Paul Flowers, Richard Langely, William R. Robinson, Klaus Hellmut Theopold, 2019-02-14 Chemistry 2e is designed to meet the scope and sequence requirements of the two semester general chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition **University**

Physics OpenStax, 2016-11-04 University Physics is a three volume collection that meets the scope and sequence requirements for two and three semester calculus based physics courses Volume 1 covers mechanics sound oscillations and waves Volume 2 covers thermodynamics electricity and magnetism and Volume 3 covers optics and modern physics This textbook emphasizes connections between theory and application making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject Frequent strong examples focus on how to approach a problem how to work with the equations and how to check and generalize the result The text and images in this textbook are grayscale *Radiochemistry and Nuclear Chemistry* Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, 2002 Origin of Nuclear Science Nuclei Isotopes and Isotope Separation Nuclear Mass and Stability Unstable Nuclei and Radioactive Decay Radionuclides in Nature Absorption of Nuclear Radiation Radiation Effects on Matter Detection and Measurement Techniques Uses of Radioactive Tracers Cosmic Radiation and Elementary Particles Nuclear Structure Energetics of Nuclear Reactions Particle Accelerators Mechanics and Models of Nuclear Reactions Production of Radionuclides The Transuranium Elements Thermonuclear Reactions the Beginning and the Future Radiation Biology and Radiation Protection Principles of Nuclear Power Nuclear Power Reactors Nuclear Fuel Cycle Behavior of Radionuclides in the Environment Appendices Solvent Extraction Separations Answers to Exercises Isotope Chart Periodic Table of the Elements Quantities and Units Fundamental Constants Energy Conversion Factors Element and Nuclide Index Subject Index

Half-life of Tritium Aaron Novick, 1947 *Chemistry* Bruce Averill, Patricia Eldredge, 2007 Emphasises on contemporary applications and an intuitive problem solving approach that helps students discover the exciting potential of chemical science This book incorporates fresh applications from the three major areas of modern research materials environmental chemistry and biological science Precalculus Jay P. Abramson, Valeree Falduto, Rachael Gross (Mathematics teacher), David Lippman, Melonie Rasmussen, Rick Norwood, Nicholas Belloit, Jean-Marie Magnier, Harold Whipple, Christina

Fernandez,2014-10-23 Precalculus is intended for college level precalculus students Since precalculus courses vary from one institution to the next we have attempted to meet the needs of as broad an audience as possible including all of the content that might be covered in any particular course The result is a comprehensive book that covers more ground than an instructor could likely cover in a typical one or two semester course but instructors should find almost without fail that the topics they wish to include in their syllabus are covered in the text Many chapters of OpenStax College Precalculus are suitable for other freshman and sophomore math courses such as College Algebra and Trigonometry however instructors of those courses might need to supplement or adjust the material OpenStax will also be releasing College Algebra and Algebra and trigonometry titles tailored to the particular scope sequence and pedagogy of those courses Preface [The Great Mental Models, Volume 1](#) Shane Parrish,Rhiannon Beaubien,2024-10-15 Discover the essential thinking tools you've been missing with The Great Mental Models series by Shane Parrish New York Times bestselling author and the mind behind the acclaimed Farnam Street blog and The Knowledge Project podcast This first book in the series is your guide to learning the crucial thinking tools nobody ever taught you Time and time again great thinkers such as Charlie Munger and Warren Buffett have credited their success to mental models representations of how something works that can scale onto other fields Mastering a small number of mental models enables you to rapidly grasp new information identify patterns others miss and avoid the common mistakes that hold people back The Great Mental Models Volume 1 General Thinking Concepts shows you how making a few tiny changes in the way you think can deliver big results Drawing on examples from history business art and science this book details nine of the most versatile all purpose mental models you can use right away to improve your decision making and productivity This book will teach you how to Avoid blind spots when looking at problems Find non obvious solutions Anticipate and achieve desired outcomes Play to your strengths avoid your weaknesses and more The Great Mental Models series demystifies once elusive concepts and illuminates rich knowledge that traditional education overlooks This series is the most comprehensive and accessible guide on using mental models to better understand our world solve problems and gain an advantage **Molybdenum-99 for Medical Imaging** National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Nuclear and Radiation Studies Board,Committee on State of Molybdenum-99 Production and Utilization and Progress Toward Eliminating Use of Highly Enriched Uranium,2016-11-28 The decay product of the medical isotope molybdenum 99 Mo 99 technetium 99m Tc 99m and associated medical isotopes iodine 131 I 131 and xenon 133 Xe 133 are used worldwide for medical diagnostic imaging or therapy The United States consumes about half of the world's supply of Mo 99 but there has been no domestic i e U S based production of this isotope since the late 1980s The United States imports Mo 99 for domestic use from Australia Canada Europe and South Africa Mo 99 and Tc 99m cannot be stockpiled for use because of their short half lives Consequently they must be routinely produced and delivered to medical imaging centers Almost all Mo 99 for medical use is produced by irradiating highly enriched uranium HEU targets in

research reactors several of which are over 50 years old and are approaching the end of their operating lives Unanticipated and extended shutdowns of some of these old reactors have resulted in severe Mo 99 supply shortages in the United States and other countries Some of these shortages have disrupted the delivery of medical care Molybdenum 99 for Medical Imaging examines the production and utilization of Mo 99 and associated medical isotopes and provides recommendations for medical use

The Elements: A Very Short Introduction Philip Ball,2004-04-08 This Very Short Introduction is an exciting and non traditional approach to understanding the terminology properties and classification of chemical elements It traces the history and cultural impact of the elements on humankind from ancient times through today Packed with anecdotes The Elements is a highly engaging and entertaining exploration of the fundamental question what is the world made from

An Evaluation of Radiation Exposure Guidance for Military Operations Institute of Medicine,1997-10-28
Radioactivity Michael F. L'Annunziata,2016-05-13 A recipient of the PROSE 2017 Honorable Mention in Chemistry Physics Radioactivity Introduction and History From the Quantum to Quarks Second Edition provides a greatly expanded overview of radioactivity from natural and artificial sources on earth radiation of cosmic origins and an introduction to the atom and its nucleus The book also includes historical accounts of the lives works and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present These leaders in the field have contributed to our knowledge of the science of the atom its nucleus nuclear decay and subatomic particles that are part of our current knowledge of the structure of matter including the role of quarks leptons and the bosons force carriers Users will find a completely revised and greatly expanded text that includes all new material that further describes the significant historical events on the topic dating from the 1950s to the present Provides a detailed account of nuclear radiation its origin and properties the atom its nucleus and subatomic particles including quarks leptons and force carriers bosons Includes fascinating biographies of the pioneers in the field including captivating anecdotes and insights Presents meticulous accounts of experiments and calculations used by pioneers to confirm their findings

Chemistry Steven S. Zumdahl,Susan A. Zumdahl,2012 Steve and Susan Zumdahl s texts focus on helping students build critical thinking skills through the process of becoming independent problem solvers They help students learn to think like a chemists so they can apply the problem solving process to all aspects of their lives In CHEMISTRY AN ATOMS FIRST APPROACH 1e International Edition the Zumdahls use a meaningful approach that begins with the atom and proceeds through the concept of molecules structure and bonding to more complex materials and their properties Because this approach differs from what most students have experienced in high school courses it encourages them to focus on conceptual learning early in the course rather than relying on memorization and a plug and chug method of problem solving that even the best students can fall back on when confronted with familiar material The atoms first organization provides an opportunity for students to use the tools of critical thinkers to ask questions to apply rules and models and to

Medical Isotope Production Without Highly Enriched Uranium National Research Council,Division

on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Medical Isotope Production Without Highly Enriched Uranium, 2009-06-27 This book is the product of a congressionally mandated study to examine the feasibility of eliminating the use of highly enriched uranium HEU² in reactor fuel reactor targets and medical isotope production facilities The book focuses primarily on the use of HEU for the production of the medical isotope molybdenum 99 Mo 99 whose decay product technetium 99m³ Tc 99m is used in the majority of medical diagnostic imaging procedures in the United States and secondarily on the use of HEU for research and test reactor fuel The supply of Mo 99 in the U S is likely to be unreliable until newer production sources come online The reliability of the current supply system is an important medical isotope concern this book concludes that achieving a cost difference of less than 10 percent in facilities that will need to convert from HEU to LEU based Mo 99 production is much less important than is reliability of supply Radioisotopes and the Age of the Earth Larry Vardiman, Andrew Snelling, Eugene F. Chaffin, 2000 This book presents part two of the research results of an eight year project titled Radioisotopes and the Age of the Earth RATE A previous volume presenting part one of the research was published in 2000 titled Radioisotopes and the age of the Earth a young earth creationist research initiative RATE Project sponsors included Institute for Creation Research and Creation Research Society with start up support from Answers in Genesis Ministries Researchers included seven scientists and one biblical Hebrew scholar Dr Steven A Austin Dr Andrew Snelling Dr John Baumgardner Dr Eugene F Chaffin Dr Donald B DeYoung Dr Russell Humphreys Dr Larry Vardiman and Dr Steven W Boyd **Nuclear Physics** National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on the Assessment of and Outlook for Nuclear Physics, 2013-02-25 The principal goals of the study were to articulate the scientific rationale and objectives of the field and then to take a long term strategic view of U S nuclear science in the global context for setting future directions for the field Nuclear Physics Exploring the Heart of Matter provides a long term assessment of an outlook for nuclear physics The first phase of the report articulates the scientific rationale and objectives of the field while the second phase provides a global context for the field and its long term priorities and proposes a framework for progress through 2020 and beyond In the second phase of the study also developing a framework for progress through 2020 and beyond the committee carefully considered the balance between universities and government facilities in terms of research and workforce development and the role of international collaborations in leveraging future investments Nuclear physics today is a diverse field encompassing research that spans dimensions from a tiny fraction of the volume of the individual particles neutrons and protons in the atomic nucleus to the enormous scales of astrophysical objects in the cosmos Nuclear Physics Exploring the Heart of Matter explains the research objectives which include the desire not only to better understand the nature of matter interacting at the nuclear level but also to describe the state of the universe that existed at the big bang This report explains how the universe can now be studied in the most advanced colliding beam accelerators where strong forces are the dominant interactions as well as the nature of neutrinos

Radiation Biophysics Edward L. Alpen, 1997-10-22 This newly revised and updated edition of Radiation Biophysics provides an in depth description of the physics and chemistry of radiation and its effects on biological systems Coverage begins with fundamental concepts of the physics of radiation and radioactivity then progresses through the chemistry and biology of the interaction of radiation with living systems The Second Edition of this highly praised text includes major revisions which reflect the rapid advances in the field New material covers recent developments in the fields of carcinogenesis DNA repair molecular genetics and the molecular biology of oncogenes and tumor suppressor genes The book also includes extensive discussion of the practical impact of radiation on everyday life Covers the fundamentals of radiation physics in a manner that is understandable to students and professionals with a limited physics background Includes problem sets and exercises to aid both teachers and students Discusses radioactivity internally deposited radionuclides and dosimetry Analyzes the risks for occupational and non occupational workers exposed to radiation sources Structure of Atomic Nuclei L. Satpathy, 1999 This volume is an outcome or a SERC School on the nuclear physics on the theme Nuclear Structure The topics covered are nuclear many body theory and effective interaction collective model and microscopic aspects of nuclear structure with emphasis on details of technique and methodology by a group of working nuclear physicists who have adequate expertise through decades of experience and are generally well known in their respective fields This book will be quite useful to the beginners as well as to the specialists in the field of nuclear structure physics *Fundamentals of Nuclear Pharmacy* Gopal B. Saha, 2017-11-11 Currently an estimated 17 million nuclear medicine procedures are performed each year in the US and constantly evolving as new radiopharmaceuticals and imaging techniques are introduced for better diagnosis and treatment of human diseases In keeping up with new developments the Seventh Edition of Fundamentals of Nuclear Pharmacy chronicles the advancements in radiopharmaceuticals and their use in clinical applications It discusses basic concepts such as the atom radioactive decay instrumentation and production of radionuclides and explores the design labeling characteristics and quality control of radiopharmaceuticals Radiation regulations and diagnostic and therapeutic applications of radiopharmaceuticals are detailed Thoroughly updated the Seventh Edition includes new topics such as alternative productions of ^{99}Mo production of ^{64}Cu ^{86}Y ^{89}Zr ^{177}Lu ^{223}Ra synthesis and clinical uses of new radiopharmaceuticals such as DaTscan Xofigo Amyvid Neuraceq Vizamyl Axumin and ^{68}Ga DOTATATE dosimetry of new radiopharmaceuticals theranostic agents and translational medicine It features numerous examples diagrams and images to further clarify the information and offers end of chapter questions to help readers assess their comprehension of the material Recognized as a classic text on nuclear chemistry and pharmacy and acclaimed for its concise and easy to understand presentation Fundamentals of Nuclear Pharmacy is an authoritative resource for nuclear medicine physicians residents students and technologists Fundamentals of General, Organic, and Biological Chemistry John McMurry, 2013 Fundamentals of General Organic and Biological Chemistry by McMurry Ballantine Hoeger and Peterson provides

background in chemistry and biochemistry with a relatable context to ensure students of all disciplines gain an appreciation of chemistry's significance in everyday life. Known for its clarity and concise presentation, this book balances chemical concepts with examples drawn from students' everyday lives and experiences to explain the quantitative aspects of chemistry and provide deeper insight into theoretical principles. The Seventh Edition focuses on making connections between General Organic and Biological Chemistry through a number of new and updated features, including all new Mastering Reactions boxes, Chemistry in Action boxes, new and revised chapter problems that strengthen the ties between major concepts in each chapter, practical applications, and much more. NOTE: this is just the standalone book; if you want the book access card, order the ISBN below: 032175011X 9780321750112 Fundamentals of General Organic and Biological Chemistry Plus MasteringChemistry with eText Access Card Package. Package consists of 0321750837 9780321750839 Fundamentals of General Organic and Biological Chemistry 0321776461 9780321776464 MasteringChemistry with Pearson eText Valuepack Access Card for Fundamentals of General Organic and Biological Chemistry. *Biological Effects of Nonionizing Radiation* Karl H. Illinger, American Chemical Society, Division of Physical Chemistry, 1981

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