

# Radioactive Decay Equations POGIL

## High School Nuclear Chemistry/Physics

### Radioactive Decay Equations POGIL

Background: Alpha Decay

**Alpha Decay:** This type of decay happens when a heavy nucleus (one having 82 or more protons) emits a "helium particle" (also referred to as an alpha particle).

For example, let's consider Polonium-210. It's nucleus is too heavy and unstable, so it emits an alpha particle, which is a helium nucleus, to become a more stable nucleus.

For example, let's consider Polonium-210. It's nucleus is too heavy and unstable, so it emits an alpha particle, which is a helium nucleus, to become a more stable nucleus.



**Alpha:** The symbol  $\alpha$  is used to represent an alpha particle. By the law of conservation of mass, the mass number of the alpha particle is 4, and the atomic number is 2.

Fill in the blank by writing the alpha particle's mass number and atomic number.

Alpha particle	Symbol
Mass number	4
Atomic number	2
Symbol	$\alpha$
Symbol	${}_2^4\text{He}$

### Radioactive Decay Equations POGIL

Background: Beta Decay

**Beta Decay:** This type of decay happens when a neutron inside a nucleus changes into a proton, emitting a "beta particle" (which is equivalent to an electron) and a neutrino.

For example, let's consider Carbon-14. It's nucleus is too heavy and unstable, so it emits a beta particle, which is an electron, to become a more stable nucleus.



For example, let's consider Carbon-14. It's nucleus is too heavy and unstable, so it emits a beta particle, which is an electron, to become a more stable nucleus.

The symbol  $\beta$  is used to represent a beta particle. By the law of conservation of mass, the mass number of the beta particle is 0, and the atomic number is -1.

For example, let's consider Carbon-14. It's nucleus is too heavy and unstable, so it emits a beta particle, which is an electron, to become a more stable nucleus.

### Alpha Decay and Beta Decay

Alpha and beta decay are two types of radioactive decay. Alpha decay involves the emission of an alpha particle, which is a helium nucleus. Beta decay involves the emission of a beta particle, which is an electron. Both types of decay result in a more stable nucleus.

# Pogil Activity For Nuclear Chemistry

**Hari Jeevan Arnika**



## **POGIL Activity For Nuclear Chemistry:**

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**Modern NMR Spectroscopy in Education** David Rovnyak, 2007 This book is intended to be a comprehensive resource for educators seeking to enhance NMR enabled instruction in chemistry This book describes a host of new modern laboratories and experiments *Chemical Pedagogy* Keith S Taber, 2024-12-20 How should chemistry be taught in schools colleges and universities Chemical Pedagogy discusses teaching approaches and techniques the reasoning behind them and the evidence for their effectiveness The book surveys a wide range of different pedagogic strategies and tactics that have been recommended to better engage learners and provide more effective chemistry teaching These accounts are supported by an initial introduction to some key ideas and debates about pedagogy the science of teaching Chemical Pedagogy discusses how teaching innovations can be tested to inform research based practice Through this book the author explores the challenges of carrying out valid experimental studies in education and the impediments to generalising study results to diverse teaching and learning contexts As a result the author highlights both the need to read published studies critically and the value of teachers and lecturers testing out recommended innovations in their own classrooms Chemical Pedagogy introduces core principles from research into human cognition and learning to provide a theoretical perspective on how to

best teach for engagement and understanding An examination of some of the more contentious debates about pedagogy leads to the advice to seek optimally guided instruction which balances the challenge offered to learners with the level of support provided This provides a framework for discussing a wide range of teaching approaches and techniques that have been recommended to those teaching chemistry across educational levels including both those intended to replace teaching from the front and others that can be built into traditional lecture courses to enhance the learning experience *Making Chemistry Relevant* Sharmistha Basu-Dutt, 2010-02-19 Unique new approaches for making chemistry accessible to diverse students Students interest and achievement in academics improve dramatically when they make connections between what they are learning and the potential uses of that knowledge in the workplace and or in the world at large *Making Chemistry Relevant* presents a unique collection of strategies that have been used successfully in chemistry classrooms to create a learner sensitive environment that enhances academic achievement and social competence of students Rejecting rote memorization the book proposes a cognitive constructivist philosophy that casts the teacher as a facilitator helping students to construct solutions to problems Written by chemistry professors and research groups from a wide variety of colleges and universities the book offers a number of creative ways to make chemistry relevant to the student including Teaching science in the context of major life issues and STEM professions Relating chemistry to current events such as global warming pollution and terrorism Integrating science research into the undergraduate laboratory curriculum Enriching the learning experience for students with a variety of learning styles as well as accommodating the visually challenged students Using media hypermedia games and puzzles in the teaching of chemistry Both novice and experienced faculty alike will find valuable ideas ready to be applied and adapted to enhance the learning experience of all their students *An Introduction To Nuclear Chemistry* M. Satake, 2010 Contents The Development of Nuclear Chemistry Fundamental Particles and Nuclear Structure Radioactivity and Nuclear Reactions Properties of Nuclear Radiations The Detection and Measurement of Nuclear Radiation Nuclear Instrumentation Radiation Chemistry Isotope Measurement and Separation Methods Changed Particle Accelerators Neutron Sources Production and the Actinides Uses of Isotopes Experimental Nuclear Chemistry **Principles of Nuclear Chemistry** Russell R. Williams, 1950 **Experimental nuclear chemistry** Gregory R. Choppin, 1963

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