

Student Exploration: Nuclear Decay (ANSWER KEY)

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Student Exploration: Nuclear Decay

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

The chart below gives the locations, charges, and approximate masses of three **subatomic particles**. The approximate mass of each particle is given in universal mass units (*u*).

Particle	Location	Charge	Approximate mass
Proton	Nucleus	1+	1 u
Neutron	Nucleus	0	1 u
Electron	Orbitals	1-	0 u

1. The **mass number** of an atom is equal to the sum of protons and neutrons in the nucleus. A helium atom has 2 protons and 2 neutrons. What is the mass number of this atom?

1. The **atomic number** of an element is equal to the number of protons in each atom of the element. All helium atoms have 2 protons. What is the atomic number of helium?

Gizmo Warm-up

While most atoms are stable, some are **radioactive**, which means that they have a tendency to undergo spontaneous **nuclear decay**. The decay of radioactive atoms generally results in the **emission of particles and/or energy**.

Explore Learning Nuclear Decay Answer Key

Paul Morris



Explore Learning Nuclear Decay Answer Key:

Another Introduction to Nuclear Energy Edenilson Brandl, For centuries humanity has sought to understand and harness the fundamental forces of nature This work represents an attempt to delve into one of the most powerful and transformative energy sources the energy locked within atomic nuclei From its humble beginnings in theoretical physics to its pivotal role in shaping modern energy systems the study of nuclear energy has pushed the boundaries of science technology and human ambition This book is designed not only to provide foundational knowledge about nuclear energy but also to explore its future possibilities By examining the intersection of science engineering and policy it seeks to bridge the gap between theoretical understanding and practical application It is written with the hope of fostering informed discussions on how nuclear technology can contribute to sustainable energy solutions while addressing its challenges As you embark on this journey you will encounter topics ranging from the basic principles of atomic structure to the ethical dilemmas surrounding nuclear proliferation The goal is to equip readers with the knowledge to navigate these complex issues and inspire innovative thinking for a better future *Physics for the IB MYP 4 & 5* Paul Morris,2015-09-25 The only series for MYP 4 and 5 developed in cooperation with the International Baccalaureate IB Develop your skills to become an inquiring learner ensure you navigate the MYP framework with confidence using a concept driven and assessment focused approach presented in global contexts Develop conceptual understanding with key MYP concepts and related concepts at the heart of each chapter Learn by asking questions with a statement of inquiry in each chapter Prepare for every aspect of assessment using support and tasks designed by experienced educators Understand how to extend your learning through research projects and interdisciplinary opportunities This title is also available in two digital formats via Dynamic Learning Find out more by clicking on the links at the top of the page **Resources in Education** ,1997 [Resources in Education](#) ,1997 *The Software Encyclopedia* ,1985 *INIS Atomindex* ,1975 *Engineering Education* ,1969 **Reader's Digest Almanac** ,1971 **Conference Papers Index** ,1988 Monthly Papers presented at recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs and abstract publications as well as questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any ordering number assigned Quarterly and annual indexes to subjects authors and programs not available in monthly issues **Energy Information Abstracts** ,1991 **Dissertation Abstracts International** ,2001 *A Supplement to the Oxford English Dictionary: O-Scz* R. W. Burchfield,1972 Supplement to the Oxford dictionary of the English language comprising new words and senses of the period from 1884 to the present day replaces the earlier 1933 supplement *INIS Atomindex* ,1975 **The Guardian Index** ,2002 **International Aerospace Abstracts** ,1990 *Corrosion Abstracts* ,1961 **Comprehensive Dissertation Index, 1861-1972: Psychology** Xerox University Microfilms,1973 *Selected Rand Abstracts* Rand Corporation,1963

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Government Reports

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