

7.2 PhET LAB: Alpha Decay



Name: _____

OBJECTIVE: explain the alpha decay process; complete radioactive decay equations; define and analyze half-life through applying the PhET "Alpha Decay" simulation at <http://phet.colorado.edu>.

Open/Run Alpha Decay at <http://phet.colorado.edu>.

Take 5 minutes to freely explore the sim.

Investigating Alpha Decay

1. Start on the **SINGLE ATOM** tab. Observe the decay of Polonium-211. After each decay, press the RESET NUCLEUS button to watch the process again. Write a description of alpha decay for Po-211.

Complete the following alpha decay equations, using <http://www.chemicalelements.com> as a resource:



7. How is alpha decay used in everyday life? (give at least two uses)

Investigating Half-Life of Alpha Decay

8. Click the **MULTIPLE ATOMS** tab. Execute five trials to determine the number of parent and daughter nuclei at one half-life. Complete the table below.

Parent Nuclei Po-211	Parent Nuclei (remaining nuclei) [yellow]	Daughter Nuclei (decayed nuclei) [black]
100		
80		
60		
40		
20		

9. Define half-life.

Alpha Decay Lab Answers

Mocktime Publication



Alpha Decay Lab Answers:

Alpha-decay Studies of Protactinium Isotopes Vishnu B. Subrahmanyam, 1963 **Essentials of Physical Chemistry 28th Edition** Bahl Arun/ Bahl B.S. & Tuli G.D., 2022-03 Essentials of Physical Chemistry is a classic textbook on the subject explaining fundamentals concepts with discussions illustrations and exercises With clear explanation systematic presentation and scientific accuracy the book not only helps the students clear misconceptions about the basic concepts but also enhances students ability to analyse and systematically solve problems This bestseller is primarily designed for B Sc students and would equally be useful for the aspirants of medical and engineering entrance examinations JAM IIT Physics Question Bank MSC Entrance Mocktime Publication, The IIT JAM Physics code PH question bank comprises previous year papers in PDF topic wise compilations mechanics electromagnetism quantum physics optics statistical mechanics solid state physics linked books with detailed notes and solved examples and timed mock tests It adheres to the JAM Physics exam pattern Sections A B C By using this question bank aspirants improve problem solving under time pressure gain familiarity with high yield topics and build confidence for MSc Physics admission entrance exam **Report summaries** United States. Environmental Protection Agency, 1983 **Physics Lab Experiments** Matthew French, 2016-10-07 This new book will guide both the experimentalist and theoretician through their compulsory laboratory courses forming part of an undergraduate physics degree It shows students and interested readers the value and beauty within a carefully planned and executed experiment and will help them to develop the skills to carry out experiments themselves **Scientific and Technical Aerospace Reports** ,1970 *AERE C/R* ,1959 CSIR NET Physical Sciences Question Bank Mocktime Publication, The Physical Sciences question bank CSIR NET integrates disciplines like Physics Astronomy Materials Science and Electronics depending on syllabus This resource provides previous year question PDFs answer keys and detailed solutions question sets organised by topic mechanics electromagnetism quantum thermodynamics solid state etc and model tests mirroring the NET pattern Parts A B C The bank emphasises analytical and application based problems in Part C worth 4 marks each so that aspirants build reasoning skills rather than mere factual recall Books tied to this pack incorporate concise notes worked examples and topic summaries aligned to the NET syllabus Regular practice through the bank enables students to become fluent in solving diverse MCQ formats sharpen time management skills and internalise patterns of high frequency questions Especially beneficial for aspirants seeking JRF lectureship in physical sciences **Nuclear Science Abstracts** ,1973
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