

Chapter 25 - Nuclear Chemistry

The study of _____ and their uses in chemistry

Radiation -

- The penetrating rays & particles emitted by a radioactive source

Radioactivity -

- Process that occurs when nuclei *change* _____

Radioisotopes -

- Atoms containing _____
- Recall... What are isotopes?

○

How do nuclear reactions differ from chemical reactions?

Chemical Reactions

- Atoms become stable by _____ or _____ electrons
- Rate _____ changed by catalysts, temperature, pressure, etc.
- Mass & charge _____

Nuclear Reactions

- Nuclei become stable by undergoing changes that _____ of energy
- Rate _____ be changed
- Charge conserved, mass _____
- A _____ small amount of mass is converted into energy

Nuclear Stability

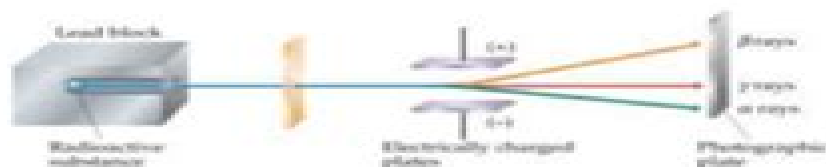
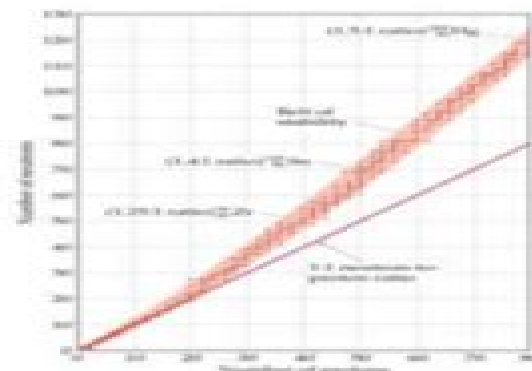
- Most nuclei are stable
- The stability of a nucleus depends on its neutron to proton _____
- The stable nuclei are in the ' _____ '

Radioactive Decay

- Occurs in atoms with too _____ or too _____ neutrons
- The nucleus will attempt to become more stable by releasing energy through _____
- Transmutation -
 - when the unstable nucleus of one element is _____ into a stable nucleus of a *different* element
 - Occurs naturally and artificially

Types of Radioactive Decay

- Alpha particles,
- Beta particles,
- Positron emission
- Gamma rays,



Chapter 25 Nuclear Chemistry Guided Reading Packet

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Chapter 25 Nuclear Chemistry Guided Reading Packet:

Principles of physical Science, 1971 **Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Addison-Wesley Chemistry Antony C. Wilbraham, Dennis D. Staley, Michael S. Matta, Edward L. Waterman, Prentice-Hall Staff, 2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link **Chemistry in Action** George Mimms Rawlins, 1961

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 1950-1977 R.R. Bowker Company. Department of Bibliography,1978 **Bulletin of the Atomic Scientists** ,1958-01 The
 Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact
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Technical Book Review Index ,1956 Bell Laboratories Record Bell Telephone Laboratories,1955 *Library Journal*
 Melvil Dewey,Richard Rogers Bowker,L. Pylodet,Charles Ammi Cutter,Bertine Emma Weston,Karl Brown,Helen E.
 Wessells,1958 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library
 journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately *The Bookseller* ,1961

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