

Chapter 10 Nuclear Chemistry

7. How is the product isotope different from the reactant isotope in alpha decay? The product isotope has two fewer protons and two fewer neutrons than the reactant isotope.
8. Circle the letters that identify each event that takes place during beta decay.
- ☐ A proton decomposes into a neutron and an electron.
 - ☒ A neutron decomposes into a proton and an electron.
 - ☒ An electron is emitted from the nucleus.
 - ☐ A neutron is emitted from the nucleus.
9. Why are beta particles more penetrating than alpha particles? Beta particles have a smaller mass and a faster speed.
10. Is the following sentence true or false? All nuclear radiation consists of charged particles. false
11. What is a gamma ray? A gamma ray is a penetrating ray of energy emitted by an unstable nucleus.
12. How fast do gamma rays travel through space? Gamma rays travel through space at the speed of light.
13. Complete the following table about nuclear radiation.

Characteristics of Nuclear Radiation			
Radiation Type	Charge	Mass (amu)	Usually Stopped By
Alpha particle	- 1	4	Paper or clothing
Beta particle	1 -	1 1836	Aluminum sheet
Gamma ray	0	0	Several meters of concrete

Effects of Nuclear Radiation (pages 296–297)

14. How does nuclear radiation affect atoms? Nuclear radiation can ionize atoms.
15. Is the following sentence true or false? One potential danger of radon gas is that prolonged exposure to it can lead to lung cancer. true

Detecting Nuclear Radiation (page 297)

16. Name two devices that are used to detect nuclear radiation.
- Geiger counters
 - Film badges

Section 3 Radioactivity Answers

Ping Xia, Andrew Godley



Section 3 Radioactivity Answers:

Physics Homework for OCR A for Double and Separate Awards Newman, Viv, 2001 This series is for schools following OCR A double or separate award for GCSE science The resources offer preparation for the OCR exams with teacher support to minimise time spent on administration The teacher's resources are available on CD ROM in a fully customizable format

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Communicating Chemistry Patrick D. Bailey, Sara Shinton, 1999 This book can be used as a modular text or as a set of stand alone exercises It is aimed at students in the penultimate year of a chemistry degree *NEET 2026 Answer-Craft Toolkit: 150 Structured Prompts in Biology (Cell Biology, Genetics, Human Physiology), Chemistry (Organic, Inorganic, Physical), and Physics (Mechanics, Optics, Thermodynamics) — NCERT-Mapped & Error-Free* ReguReady, Free Telegram PDFs are chaotic full of errors missing diagrams and no structure This Answer Craft Toolkit gives NEET aspirants clarity speed and confidence with 150 structured prompts Biology 50 Prompts Cell Membrane Cell Cycle DNA Replication Mendelian Genetics Human Digestive System Respiratory System Circulatory System Nervous Endocrine Systems Photosynthesis Respiration Plant Hormones Chemistry 50 Prompts Atomic Models Periodic Trends Organic Reactions Hydrocarbons Functional Groups Mechanisms Inorganic Chemistry Coordination Compounds Equilibrium Physical Chemistry Thermodynamics Electrochemistry Kinetics Physics 50 Prompts Mechanics Motion Work Energy Power Laws of Gravitation Optics Electromagnetism Thermodynamics Oscillations Modern Physics Why aspirants buy this instead of relying on free NCERT Mapped Error Proof QA checked against NCERT Exam Exact Scaffolded Practice answers structured like NEET requires Topic Coverage all high yield areas cell bio genetics human physiology organic chemistry thermodynamics optics Mobile Friendly easy to revise on phone tablet The only NEET 2026 toolkit designed to build exam ready answers across Biology Chemistry Physics Want 1 000 diagrams 2 500 MCQs 15 mocks See NEET Mastery Pack by ReguReady *Excel HSC Physics* Neville G. Warren, 2003 **NCLEX-PN Premier 2016 with 2 Practice Tests** Kaplan Nursing, 2016-03-29 Pass the NCLEX PN Passing the NCLEX PN exam is not just about what you know it's about how you think With expert critical thinking strategies and targeted practice Kaplan's NCLEX PN Premier 2016 with 2 Practice Tests shows you how to

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Rio Blanco Gas Stimulation Project ,1972

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