

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

Review Nuclear Chemistry Section 1 Answer Key

Thomas Evangelist



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Nuclear Science Abstracts, 1975 *List*, 1948 *Essentials of Chemistry* Dennis D. Staley, Antony C. Wilbraham, 1984 **Liquid-Phase Extraction** Colin F. Poole, 2019-08-29 Liquid Phase Extraction thoroughly presents both existing and new techniques in liquid phase extraction It not only provides all information laboratory scientists need for choosing and utilizing suitable sample preparation procedures for any kind of sample but also showcases the contemporary uses of sample preparation techniques in the most important industrial and academic project environments including countercurrent chromatography pressurized liquid extraction single drop Microextraction and more Written by recognized experts in their respective fields it serves as a one stop reference for those who need to know which technique to choose for liquid phase extraction Used in conjunction with a similar release Solid Phase Extraction it allows users to master this crucial aspect of sample preparation Defines the current state of the art in extraction techniques and the methods and procedures for implementing them in laboratory practice Includes extensive referencing that facilitates the identification of key information Aimed at both entry level scientists and those who want to explore new techniques and methods

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ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977-03

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