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Section 25.1 Nuclear Radiation You may recall from Chapter 4 that the nuclei of some atoms are unstable and undergo nuclear reactions. In this chapter you will study nuclear chemistry, which is concerned with the structure of atomic nuclei and the changes they undergo. An application of a

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nuclear reaction is
shown in the photo of

Chapter 25: Nuclear Chemistry

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Answers beta decay
(used in therapy for
hyperthyroidism)

Practice Problems

(Chapter 10): Nuclear
Chemistry Chapter 25

Section 25.2

(continued) Half-Life

Discuss Explain that,

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for each element, there exists only a small range of neutron-to-proton ratios that produce stable nuclei.

Chapter 25 Nuclear Chemistry Guided Reading Answers

25 Section 25.4

continued Heat produced by nuclear fission is carried away by (7), which enters the core at point (8) in the diagram. It then leaves the core at point

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(9) Heat from the reactor core is used to boil water in the (10) shown at (II) generate electricity at point (12) cooled at location (13) in the 'agram.

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Study Workbook,
Section 25.1... 800

Chapter 25 Types of
Radiation Discuss

Explain that the nuclei
of a radioactive

element spontaneously

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decompose. Nuclear chemistry is the study of changes in matter that originate in atomic nuclei. Ask, What types of radiation exist, and how harmful are

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...

SECTION 25.1
NUCLEAR RADIATION
(pages 799–802) 268
Guided Reading and
Study Workbook

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Chemistry Study Guide Answers CHAPTER 25, Nuclear Chemistry (continued)

Types of Radiation
(pages 800–802) 6

Complete the following
table showing some
characteristics of the
main types of radiation
commonly emitted
during radioactive

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Chapter 25 Section
25.2 (continued) Half-
Life Discuss Explain

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that, for each element, there exists only a small range of neutron-to-proton ratios that produce stable nuclei. If a nucleus does not reflect a

25.2 Nuclear Transformations

25 Start studying Nuclear Chemistry - Chapter 25.

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...

Nuclear chemistry is
the study of reactions
that involve changes in

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nuclear structure. The chapter on atoms, molecules, and ions introduced the basic idea of nuclear structure, that the nucleus of an atom is composed of protons and, with the exception of ${}^1_1\text{H}$, neutrons.

25.1: Radioactivity - Chemistry LibreTexts

800 Chapter 25 Types
of Radiation Discuss

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Explain that the nuclei of a radioactive element spontaneously decompose. Nuclear chemistry is the study of changes in matter that originate in atomic nuclei. Ask, What types of radiation exist, and how harmful are they? (The three most common types of radiation emitted by unstable nuclei are

25.1 Nuclear Radiation 25

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Chapter 25 Section

25.2 (continued) Half-

Life Discuss Explain that, for each element, there exists only a small range of neutron-to-proton ratios that produce stable nuclei. If a nucleus does not reflect a stable ratio, it spontaneously decays until a stable ratio of neutrons to protons results. Relate Explain that the nuclear stability that

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Transformations 25

Chapter 25 - Nuclear
Chemistry

Radioactivity

- Radioactivity is the process by which nuclei emit particles and rays as they break down.
- The name of the penetrating rays emitted by a radioactive source is called radiation.
- A radioactive isotope is an unstable atom which breaks down on

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its own, releasing
energy and/or

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Chemistry Answer
Key**

SECTION 25.1

NUCLEAR RADIATION.

Chapter 25 Nuclear
Chemistry 669. Practice
Problems. In your
notebook, solve the
following problems.

SECTION 25.1

NUCLEAR RADIATION.

1. What happens to the

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mass number and atomic number of an atom that undergoes beta decay? 2.

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Section 25.4 Fission and Fusion of Atomic Nuclei
In your textbook, read about the process of by which electrical energy is produced in a nuclear power plant. Use the following diagram to complete

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the passage. In a nuclear power plant, energy is produced in the reactor core by fission reactions that occur in uranium-containing bars called (1).

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18.1 The Nucleus and

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Radioactivity Goals To introduce the new terms nucleon, nucleon number, and nuclide. To show the symbolism used to represent nuclides. To explain why some nuclei are stable and others not. To provide you with a way of predicting nuclear stability.

Chapter 18 Nuclear Chemistry

The answers to these questions can be found

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in this lesson on the applications of nuclear chemistry. Chapter Practice Exam Test your knowledge of this chapter with a 30 question practice chapter exam.

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25.1 Nuclear Radiation
25 800 Chapter 25
Types of Radiation
Discuss Explain that

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the nuclei of a
radioactive element
spontaneously
decompose Nuclear
chemistry is the study
of changes in matter
that originate in atomic
nuclei Ask, What types
of radi-ation exist, and
how harmful are

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Answers

A combination of radiochemistry and radiation chemistry is used to study nuclear reactions such as fission and fusion. Some early evidence for nuclear fission was the formation of a short-lived radioisotope of barium which was isolated from neutron irradiated uranium (^{139}Ba , with a half-life of 83 minutes and 140

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Ba, with a half-life of 12.8 days, are major fission products of uranium).

Nuclear chemistry - Wikipedia

In this video, we introduce nuclear reactions, and what makes nuclear reactions so fascinating to study! This video covers parts of section 20.1 from "Interactive General Chemistry" 1e (Macmillan

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