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Section 25 Nuclear Chemistry Study

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 nuclear reaction is

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shown in the photo of

Chapter 25: Nuclear Chemistry

SECTION 25.1 NUCLEAR RADIATION

(pages 799–802) 268 Guided Reading
and Study Workbook CHAPTER

25, Nuclear Chemistry (continued) Types
of Radiation (pages 800–802) 6

Complete the following table showing

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some characteristics of the main types of radiation commonly emitted during radioactive

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25 Section 25.4 continued Heat produced by nuclear fission is carried away by (7), which enters the core at

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point (8) in the diagram. It then leaves the core at point (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 diagram.

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SECTION 25.3 FISSION AND FUSION OF ATOMIC NUCLEI (pages 810–813) This section describes nuclear fission and nuclear fusion. It discusses their potential as sources of energy, methods used to control them, and issues involved in containment of nuclear waste.

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SECTION 25.1 NUCLEAR RADIATION (pages 799-802)

Guided Reading and Study Workbook,
Section 25.1... 800 Chapter 25 Types of
Radiation Discuss 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 radi-

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ation exist, and how harmful are

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CHEMISTRY: CHAPTER 25 SECTION 2: NUCLEAR TRANSFORMATIONS ...

Nuclear chemistry is the study of reactions that involve changes in 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

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protons and, with the exception of ${}^1_1\text{H}$, neutrons.

25.1: Radioactivity - Chemistry **LibreTexts**

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

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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

25.2 Nuclear Transformations 25

800 Chapter 25 Types of Radiation
Discuss Explain that the nuclei of a

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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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284 Study Guide for An Introduction to Chemistry Section Goals and Introductions Section 18.1 The Nucleus and 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

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predicting nuclear stability.

Chapter 18 Nuclear Chemistry

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.

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- A radioactive isotope is an unstable atom which breaks down on its own, releasing energy and/or

Pearson Education Chapter 25 Nuclear Chemistry Answer Key

Section 25.4 Fission and Fusion of Atomic Nuclei In your textbook, read about the process of by which electrical energy is

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Answers

produced in a nuclear power plant. Use the following diagram to complete 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).

Study Guide for Content Mastery

25.1 Nuclear Radiation 25 800 Chapter

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25 Types of Radiation Discuss 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

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Chemistry Pearson Answer Key

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0132525763, ISBN-13:
978-0-13252-576-3, Publisher: Prentice
Hall

Chapter 25 - Nuclear Chemistry - 25.1 Nuclear Radiation ...

The answers to these questions can be
found in this lesson on the applications

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of nuclear chemistry. Chapter Practice Exam Test your knowledge of this chapter with a 30 question practice chapter exam.

Prentice Hall Chemistry Chapter 25: Nuclear Chemistry ...

If the attractive interactions due to the strong nuclear force are weaker than the

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electrostatic repulsions between protons, the nucleus is unstable, and it will eventually decay. The relationship between the number of protons and the number of neutrons in stable nuclei, arbitrarily defined as having a half-life longer than 10 times the age of ...

25.7: Nuclear Stability - Chemistry

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Cosmic Chemistry Videodisc, Disc 4,
Side 7 Using the Internet in the Science
Classroom, TCR Chemistry Web site:
science.glencoe.com Optional Resources

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Solving Problems: A Chemistry
Handbook, Section 25.5 TCR

LESSON PLAN 25 - Glencoe

Chapter 25: Nuclear Chemistry -
jh399.k12.sd.us Chapter 25 Nuclear
Chemistry 669 Practice Problems In your
notebook, solve the following problems.
SECTION 25.1 NUCLEAR RADIATION 1.

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Answers

What happens to the mass number and atomic number of an atom that undergoes beta decay? 2. A radioisotope of an element undergoes alpha particle decay. How do the

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