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**Chemistry**  
**Section 4**

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~~Chapter~~  
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~~Section 1 Chapter  
21 Nuclear  
Chemistry: Part 5  
of 9 Chapter 21  
Nuclear Chemistry:  
Part 6 of 9~~

BIOLOGICAL  
EFFECTS OF  
RADIATION FSC  
Physics Part 2,  
Chapter 21,  
Nuclear Physics

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Einstein's Proof of  
 $E=mc^2$  *Nuclear Half*

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*Life: Calculations*

~~Reactors and Fuels~~

~~\u0026 Nuclear~~

~~Reactors Chapter~~

~~14 - Chemical~~

~~Kinetics: Part 1 of~~

~~17 Chapter 20 -~~

~~Electrochemistry:~~

~~Part 1 of 13~~

~~Nuclear Fission~~

**Let's Get Lit!**

**Frankenstein -**

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**Life Chemistry**

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**Problems -**

**Nuclear  
Radioactive  
Decay**

**Calculations**

**Practice**

**Examples**

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Transfer Nuclear

Chemistry Part 2 -

Fusion and Fission:

Crash Course



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Chemistry #39

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Nuclear Chemistry:

Part 8 of 9 Chapter

*21 - Nuclear*

*Chemistry: Part 7*

*of 9 Chapter 21 -*

*Nuclear Chemistry:*

*Part 9 of 9*

*Radiation Exposure*

*FSC Physics Part 2,*

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Nuclear Fission

Biological and  
Medical uses of  
Radiation FSC

Physics Part 2,  
Chapter 21,

Nuclear Physics

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Lecture 20

(Chapter 21:

Kinetics of Nuclear  
Reactions)

*INTERACTION OF  
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### **Chapter 21**

### **Nuclear**

### **Chemistry**

### **Section**

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Nuclear Chemistry

Notes (answers)

Chapter 21:

Nuclear Chemistry

21.1: The Nature of

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### Nuclear Reactions

Nucleons: - the particles that make up a nucleus of an atom (protons,  ${}^1_1\text{p}^+$  or  ${}^1_1\text{H}$ ) and neutrons,  $({}^1_0\text{n})$ ).

Isotopes: - atoms that have different mass number but the same atomic number or number of protons.

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**Chapter 21**

**Nuclear  
Chemistry**

**Section 4  
Review Answers**

Nuclear Chemistry

Nuclear

Transformations •

Rutherford in 1919

performed the first

nuclear

transformation. •

The transmutations

are sometimes

represented by

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listing in order, the target nucleus, the bombarding particle, the ejecting particle and the product nucleus. • The above equation becomes:

$${}_{17}^{14}\text{N} + {}_2^4\text{He} \rightarrow {}_{17}^{14}\text{N} + {}_1^1\text{H}$$

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### **Chemistry**

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

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Nuclear  
Chemistry  
Section 4

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

Recall that the  
number of protons  
in the nucleus is  
called the atomic  
number ( $Z$ ) of the  
element, and the  
sum of the number  
of protons and the  
number of  
neutrons is the



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Chapter 21

mass number (A).

Chemistry

**21.1 Nuclear  
Structure and**

**Stability -**

**Chemistry**

CHAPTER 21

REVIEW Nuclear

Chemistry. Modern

Chemistry 175

Nuclearchemistry

CHAPTER 21

REVIEW Nuclear

Chemistry SECTION

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### 4 SHORT ANSWER

Answer the following questions in the space

provided. 1. Match each of the following statements with the process(es) to which they apply, using one of the choices below: (1) fission only (3) both fission and

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Nuclear

Chemistry

**Chapter 21**

**Nuclear**

**Chemistry**

**Section 3**

**Answers**

Chapter 21 Nuclear

Chemistry. Section

21.2 Nuclear

Reactions and

Energy. Objectives:

Compare and

Contrast Nuclear

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fission and Fusion,  
Demonstrate  
Equations that  
Represent the  
Changes that  
Occur During  
Radioactive Decay,  
Trace the  
Operation and  
Structure of a  
Nuclear Reactor.  
The Power of the  
Nucleus. Nuclear  
reactions involve

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enormous energy changes.

### **Chapter 21** **Nuclear** **Chemistry -** **sd27j.org**

By the end of this section, you will be able to: Identify common particles and energies involved in nuclear reactions Write and

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balance nuclear equations Changes of nuclei that result in changes in their atomic numbers, mass numbers, or energy states are nuclear reactions.

### **21.2 Nuclear Equations - Chemistry**

Chapter 21 Nuclear Chemistry. STUDY.

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**PLAY.** nuclear reaction. a change in the composition or makeup of the nucleus. nuclear decay. the breakdown of nuclei by giving off particles or electromagnetic radiation, natural. fission. splitting of an atom into smaller atoms;

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requires lots of energy, not at high temp, chain reaction.

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### **Nuclear**

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### **Flashcards |**

### **Quizlet**

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**Section 3**

**Answers**

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GuideChapter 5-21

Answer Key

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**GuideChapter**

**5-21 Answer Key**

Nuclear reactions usually change one type of nucleus into another; chemical changes rearrange atoms. Nuclear reactions involve much larger energies than chemical reactions and have measureable mass

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changes. 9. (a), (b),  
(c), (d), and (e)

### Section 4 **Answer Key**

#### **Chapter 21 - Chemistry 2e | OpenStax**

Chapter 21.

Nuclear Chemistry.

21.5 Uses of

Radioisotopes.

Learning

Objectives. By the  
end of this section,

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you will be able to:

List common applications of radioactive isotopes;

Radioactive

isotopes have the

same chemical properties as

stable isotopes of

the same element, but they emit

radiation, which can be detected. If

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We replace one (or

Chemistry

### 21.5 Uses of

### Radioisotopes - Chemistry

If the parent nuclide undergoing  $\alpha$  decay lies below the band of stability (refer to Chapter 21.1

Nuclear Structure and Stability), the

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## Chapter 21

daughter nuclide will lie closer to the band. Beta ( $\beta$ ) decay is the emission of an electron from a nucleus. Iodine-131 is an example of a nuclide that undergoes  $\beta$  decay:

### **21.3 Radioactive Decay -**

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### **Chemistry**

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section 1 answers

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### Answers [PDF ...

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692 Chapter 16

Nuclear Chemistry

16.1 The Nucleus

and Radioactivity

*Page 36/40*

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Our journey into the center of the atom begins with a brief review. You learned in Chapter 3 that the protons and neutrons in each atom are found in a tiny, central nucleus that measures about  $1/100,000$  the diameter of the atom itself. You

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Chapter 21

also learned

Chemistry

**Chapter 16**

**Nuclear**

**Chemistry**

Chemistry and

Chemical

Reactivity (9th

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Chapter 6 The

Structure of Atoms

- 6-2 Quantization:

Planc, Einstein,

Energy, and

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Photons - Review &  
Check for Section  
6-2 - Page 226 2

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