

Name: KEY Date: _____ Period: _____

Radioactivity Worksheet

1. State the number of neutrons and protons in each of the following nuclei:

- a. ${}^3_1\text{H}$: Neutrons = 1 protons = 1
b. ${}^{12}_6\text{C}$: neutrons = 6 protons = 6
c. ${}^{56}_{26}\text{Fe}$: neutrons = 30 protons = 26
d. ${}^{197}_{79}\text{Au}$: neutrons = 118 protons = 79

2. The three types of radioactive emissions are called alpha (α), beta (β) and gamma (γ) radiation. Complete the table below with the correct information about each type.

	Charge	Atomic Symbol	Can Be Stopped By
Alpha	+2	${}^4_2\text{He}$	paper
Beta	-1	${}^0_{-1}\text{e}$	aluminum
Gamma	0	${}^0_0\gamma$	lead

3. Which of the three radioactive emissions (α , β , γ) best fit the following statements? Write the correct symbol/s on the lines.

- a) These emissions are charged. α, β
b) This emission is the most massive (heaviest). α
c) This emission is the most charged. α
d) This emission is most dangerous outside of the body. γ
e) This emission is stopped by thin paper or a few centimeters of air. α
f) This emission can travel through paper, but is stopped by aluminum. β
g) This emission can travel through fairly thick lead. γ

4. Which type of radiation – alpha, beta, or gamma:

a. Results in the greatest change in atomic number? Why?

Alpha - changes by 2

b. Results in the least change in atomic number? Why?

Gamma - no change in atomic number

Chapter 9 Section 1 Radioactivity Worksheet Answers

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Table of Contents Chapter 9 Section 1 Radioactivity Worksheet Answers

1. Understanding the eBook Chapter 9 Section 1 Radioactivity Worksheet Answers
 - The Rise of Digital Reading Chapter 9 Section 1 Radioactivity Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 9 Section 1 Radioactivity Worksheet Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 9 Section 1 Radioactivity Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 9 Section 1 Radioactivity Worksheet Answers

- Personalized Recommendations
 - Chapter 9 Section 1 Radioactivity Worksheet Answers User Reviews and Ratings
 - Chapter 9 Section 1 Radioactivity Worksheet Answers and Bestseller Lists
5. Accessing Chapter 9 Section 1 Radioactivity Worksheet Answers Free and Paid eBooks
 - Chapter 9 Section 1 Radioactivity Worksheet Answers Public Domain eBooks
 - Chapter 9 Section 1 Radioactivity Worksheet Answers eBook Subscription Services
 - Chapter 9 Section 1 Radioactivity Worksheet Answers Budget-Friendly Options
 6. Navigating Chapter 9 Section 1 Radioactivity Worksheet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 9 Section 1 Radioactivity Worksheet Answers Compatibility with Devices
 - Chapter 9 Section 1 Radioactivity Worksheet Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 9 Section 1 Radioactivity Worksheet Answers
 - Highlighting and Note-Taking Chapter 9 Section 1 Radioactivity Worksheet Answers
 - Interactive Elements Chapter 9 Section 1 Radioactivity Worksheet Answers
 8. Staying Engaged with Chapter 9 Section 1 Radioactivity Worksheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 9 Section 1 Radioactivity Worksheet Answers
 9. Balancing eBooks and Physical Books Chapter 9 Section 1 Radioactivity Worksheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 9 Section 1 Radioactivity Worksheet Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chapter 9 Section 1 Radioactivity Worksheet Answers
 - Setting Reading Goals Chapter 9 Section 1 Radioactivity Worksheet Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chapter 9 Section 1 Radioactivity Worksheet Answers

- Fact-Checking eBook Content of Chapter 9 Section 1 Radioactivity Worksheet Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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