

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. ${}^{137}_{55}\text{Ba}$: neutrons = 82 protons = 55

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

Worksheet 4 Detection Of Radioactivity Answers

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Worksheet 4 Detection Of Radioactivity Answers:

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Radiologic Science for Technologists
Stewart C. Bushong, Elizabeth Shields, Mha Rt(r), Stewart C Bushong, Scd Faapm Facr, 2004. This popular workbook laboratory manual is intended to help students review information and sharpen skills that are essential to becoming a competent radiographer. The workbook is divided into worksheets that complement the material covered in the text. Suitable for homework or in-class assignments, the workbook contains worksheets, crossword puzzles, laboratory experiments, a math tutor section, and helpful appendices. Worksheets correspond with the five sections of the main book: covering radiologic physics, the x-ray beam, the radiographic image, special x-ray imaging, and radiation protection. Over 100 worksheets focus on particular topics from specific chapters in the text. Bushbits provide a concise summary of information from the textbook that is relevant to the exercise questions. Math Tutor worksheets on decimal and fractional timers, fraction decimal conversion, solving for desired mAs, and technique adjustments provide an excellent refresher or additional practice with relevant math concepts. Laboratory Experiments provide the framework for experiments in the lab setting designed to aid in understanding via hands-on experience.

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