

Name Key Class _____ Date _____

Nuclear Decay

Types of Radiation

1. Complete the table below to compare the properties of alpha, beta, positron, and gamma radiation.

| Name | Alpha | Beta | Positron | Gamma |
|--------------|-----------------------|--------------|---------------|------------------------|
| Greek letter | α | β^- | β^+ | γ |
| Symbol | ${}^4_2\text{He}$ | ${}^0_{-1}e$ | ${}^0_{+1}e$ | N/A |
| Composition | $2p^+$, $2n^0$ | electron | anti-electron | EM wave |
| Charge | $2+$ | $1-$ | $1+$ | 0 |
| Stopped by | paper, skin, clothing | wood, glass | wood, glass | thick concrete or lead |

Nuclear Decay Reactions

In problems 2 – 5, fill in the missing particle for each nuclear decay reaction. Then, match each equation to the appropriate type of nuclear decay.



A. alpha emission



B. beta emission



C. electron capture



D. positron emission

In problems 6 and 7, write a balanced equation for each nuclear decay reaction.

6. Decay of radium-223 by alpha (α) emission.



7. Decay of iodine-126 by positron (β^+) emission.



8. How are the atomic number and mass number of a nuclide affected by positron emission?

Atomic number decreases by one. Mass number stays the same.

9. How are the atomic number and mass number of a nuclide affected by the emission of gamma radiation?

Both atomic number and mass number stay the same since gamma radiation has no mass or charge.

10. Which has a slightly greater mass in a nuclear reaction, the reactants or the products? Why?

The reactants have a slightly greater mass. In a nuclear reaction, a small amount of mass is converted to energy according to the equation $E = mc^2$. The difference in mass is referred to as the mass defect.

Chemistry Worksheet Questions 1 On Radioactivity Answers

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Chemistry Worksheet Questions 1 On Radioactivity Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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