

NUCLEAR CHEMISTRY WORKSHEET

Part A: Completing the Nuclear Decay Reaction

For each of the atoms listed below, complete the decay reaction by solving for ${}^{\hat{A}}_{\hat{Z}}\text{X}$ or other missing information. Remember that the mass and protons on each side of the arrow need to equal each other.



Part b: Writing Nuclear Decay Reactions

Write equations for the following nuclear decay reactions. Make sure that both mass numbers and atomic numbers are balanced on each side

11. Decay of polonium-218 by alpha (α) emission

12. Decay of carbon-14 by beta (β) emission)

13. The alpha decay of radon-198

14. The beta (β) decay of uranium-237

15. The alpha decay of plutonium- 243

16. Potassium-40 can decay to form calcium-40. Write the balanced equation for this nuclear reaction.

17. Write a balanced equation for the nuclear reaction in which neon-23 decays to form sodium-23.

18. Write a balanced nuclear equation for the radioactive decay of iron-60 to give cobalt-60.

19. Write a nuclear equation for the following radioactive process; beta emission by argon-37

20. When uranium-234 decays by emitting an alpha particle, it becomes?

Nuclear Chemistry Worksheet With Answers

Jessica J Manson



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The Enigmatic Realm of **Nuclear Chemistry Worksheet With Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Nuclear Chemistry Worksheet With Answers** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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