

Nuclear Chemistry Worksheet

Using your knowledge of nuclear chemistry, write the equations for the following processes:

- 1) The alpha decay of radon-198
- 2) The beta decay of uranium-237
- 3) Positron emission from silicon-26
- 4) Sodium-22 undergoes electron capture
- 5) What is the difference between nuclear fusion and nuclear fission?
- 6) How does gamma radiation change the atomic number and/or mass number of a nucleus?
- 7) Name three uses for nuclear reactions.

HALF LIFE

- 8) How much of 30.0 grams of a substance will be left after 2 hours if the half-life is 15 minutes. (answer in grams)
- 9) The half-life of cobalt 5.26 years. If 25 g are left after 40.35 days, how many grams were in the original sample?
- 10) How many days will have passed if a substance has a half-life of 120 days and 50% of the substance remains?

Half Life Chemistry Nuclear Packet Answers

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Half Life Chemistry Nuclear Packet Answers:

Decoding **Half Life Chemistry Nuclear Packet Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Half Life Chemistry Nuclear Packet Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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