

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?

Worksheet 1chapter 2nuclear Chemistry Answers

M Lipman



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Physical Chemistry Robert G. Mortimer, 2008-05-29 In this third edition core applications have been added along with more recent developments in the theories of chemical reaction kinetics and molecular quantum mechanics as well as in the experimental study of extremely rapid chemical reactions Fully revised concise edition covering recent developments in the field Supports student learning with step by step explanation of fundamental principles an appropriate level of math rigor and pedagogical tools to aid comprehension Encourages readers to apply theory in practical situations

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