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**Answer Key For Nuclear Chemistry Worksheet #2**

NUCLEAR REACTION WORKSHEET [ANSWER KEY] 1.  $^{212}_{84}\text{Po} \rightarrow ^{208}_{82}\text{Pb} + ^4_2\text{He}$  2.  $^{142}_{61}\text{Nd} \rightarrow ^{142}_{60}\text{Nd} + ^0_{-1}\text{e}$  3.  $^{253}_{99}\text{Es} \rightarrow ^{253}_{100}\text{Fm} + ^0_{-1}\text{e}$  4.  $^{218}_{84}\text{Po} \rightarrow ^{214}_{82}\text{Pb} + ^4_2\text{He}$  5.  $^9_4\text{Be} + ^4_2\text{He} \rightarrow ^{12}_6\text{C} + ^1_0\text{n}$

**NUCLEAR REACTION WORKSHEET [ANSWER KEY]**

Nuclear Chemistry Worksheet K Directions: Identify the following as alpha, beta, gamma, or neutron. Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_ 231 90 91Kr +  $^3_2\text{He}$  1. 5. 6. 8. 9.  $^0_{-1}\text{e}$  Nuclear decay with no mass and no charge An electron Least penetrating nuclear decay Most damaging nuclear decay to the human body Nuclear decay that can be stopped by skin or paper. 12 ...

**www.isd622.org**

Nuclear Chemistry Worksheet-Show "K-U-E-S" where necessary, otherwise answer completely. Work that does not fit in the provided space needs to be completed on your own paper. Part C: Half-Life: 15. If 100.0 g of carbon-14 decays until only 25.0 g of carbon is left after 11 460 years, what is the half-life of carbon-14?

**Nuclear Chemistry Worksheet- - South Dade High School**

Nuclear Chemistry Worksheet 1) The decay constant for I-131 is  $3.59 \times 10^{-3} \text{ h}^{-1}$ . How much I-131 remains after a week if the initial mass was 15.0 g? 2) The decay constant for Sr-90 is  $1237 \text{ min}^{-1}$ . If after one year k is found to be

**Nuclear Chemistry Worksheet - mmsphyschem.com**

For chemistry help, visit [www.chemfiesta.com](http://www.chemfiesta.com) ©2003 Cavalcade Publishing - All Rights Reserved 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

**Nuclear Chemistry Worksheet - nclark.net**

Answer Key for Nuclear Chemistry Worksheet #1: Nuclear Decay Processes ... c. On a plot of the number of neutrons versus the number of protons, a beta decay was represented as an arrow pointing one step down and one step to the right. If an electron ... (You may circle your answers.)

**Answer Key for Nuclear Chemistry Worksheet #1: Nuclear ...**

NUCLEAR EQUATIONS WORKSHEET ANSWERS 1. Write a nuclear equation for the alpha decay of  $^{231}_{91}\text{Pa}$  2. Write a nuclear equation for the beta decay of  $^{223}_{87}\text{Fr}$  3. Write a nuclear equation for the alpha and beta decay of  $^{149}_{62}\text{Sm}$  4.  $^{149}_{62}\text{Sm} \rightarrow ^{145}_{60}\text{Nd} + ^4_2\text{He}$

## NUCLEAR EQUATIONS WORKSHEET ANSWERS

Nuclear Chemistry Kinetics of Radioactive Decay A wooden object from an archeological site is subjected to radiocarbon dating. The activity of the sample that is due to  $^{14}\text{C}$  is measured to be 11.6 disintegrations per second.

## Chapter 21 Nuclear Chemistry - University of Massachusetts ...

Worksheet I & II - Nuclear Equations For Natural Transmutations (DOC 103 KB) Radioactive Dating and Isotopes Warm Up (DOC 33 KB) Radioactivity at Home (DOC 35 KB) Radioactive Decay and Half Life (DOC 30 KB) Radioactive Decay - Transmutation (DOC 82 KB) Nuclear Chemistry Test Review (DOC 126 KB) Nuclear Chemistry Test Review - Answer Key (DOC ...

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## Nuclear Chemistry Questions for Tests and Worksheets

Nuclear Chemistry Worksheet 1. Nuclear Reactions Nuclear reactions are rearrangements of the constituents of one nucleus into another nuclear species. During the reaction, three quantities are conserved: energy, charge, and baryon number (mass number). ... c)  $\beta^+$  particles are ...

## Nuclear Chemistry Worksheet - Linfield College

Piersa, Amanda. Remind101: Assignments and Class Updates; Regents Chemistry. ... Applications in Nuclear Chemistry Answer Key Assigned as CW on 12/14/18. Nuclear Stations Review Activity Questions. ... U-238 Decay Series Worksheet Answer Key Assigned as classwork on 12/3/15 .

## Piersa, Amanda / Unit 5: Nuclear Chemistry

Nuclear Chemistry Review all problems found on the Nuclear Chemistry Worksheet. Be able to define fission and fusion and list examples of each. Complete the following nuclear equations: 1.  $^{239}_{0}\text{Np} + ^{93}_{-1}\text{e} \rightarrow$  \_\_\_\_ 2.  $^9_4\text{Be} + ^4_2\text{He} \rightarrow$  \_\_\_\_

## Nuclear Chemistry Worksheet #1 Complete the following ...

GCC CHM152LL Nuclear Chemistry Summer Practice Worksheet p.1 of 4 CHM152LL: Nuclear Chemistry Summer Worksheet This worksheet is a summary of Nuclear Chemistry concepts and questions - you will not turn it in for a grade. An answer key will be available in PS149 - please check your answers before the final exam. I. Radioactive Isotopes and Nuclear Equations

## CHM152LL: Nuclear Chemistry Summer Worksheet

BALANCING NUCLEAR REACTIONS WORKSHEET ... NUCLEAR CHEMISTRY 1. HALF-LIFE PROBLEMS WORKSHEET 1.) What is the half-life of a 100.0 g sample of nitrogen-16 that decays to 12.5 grams in 21.6 seconds? 2.) All isotopes of technetium are radioactive, but they have widely varying half-lives. If an 800.0 gram

## BALANCING NUCLEAR REACTIONS WORKSHEET

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