

### writing nuclear equations worksheet pdf

A nuclear equation is written for an alpha decay and a beta decay below. Notice that the sum of the atomic numbers is equal on both sides of the arrow. The sum of the mass numbers is also the same on both sides.  
 $^{206}_{82}\text{Po} \rightarrow ^{202}_{82}\text{Pb} + ^4_2\alpha$  alpha decay  
 $^{124}_{51}\text{Sb} \rightarrow ^{124}_{52}\text{Te} + ^0_{-1}\beta$  beta decay  
Rewrite the following equations.

### Writing Nuclear Equations Name Chem Worksheet 4-4

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### Writing Nuclear Equations Worksheet Answers

1. Write a nuclear equation for the alpha decay of  $^{231}_{91}\text{Pa}$ .  $^{231}_{91}\text{Pa} \rightarrow ^{227}_{89}\text{Ac} + ^4_2\alpha$   
2. Write a nuclear equation for the beta decay of  $^{223}_{87}\text{Fr}$ .  $^{223}_{87}\text{Fr} \rightarrow ^{223}_{88}\text{Ra} + ^0_{-1}\beta$   
3. Write a nuclear equation for the alpha and beta decay of  $^{149}_{62}\text{Sm}$ .  $^{149}_{62}\text{Sm} \rightarrow ^{145}_{61}\text{Pm} + ^4_2\alpha + ^0_{-1}\beta$   
4. Write a nuclear equation for the beta decay of  $^{165}_{61}\text{Pm}$ .  $^{165}_{61}\text{Pm} \rightarrow ^{165}_{62}\text{Sm} + ^0_{-1}\beta$   
5.

### NUCLEAR EQUATIONS WORKSHEET ANSWERS

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### Writing Nuclear Equations Chem Worksheet 4 4 Answer Key

NUCLEAR EQUATIONS WORKSHEET 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 decay of  $^{149}_{62}\text{Sm}$ . 4. Write a nuclear equation for the beta decay of  $^{165}_{61}\text{Pm}$ . 5. Write a nuclear equation for the alpha decay of  $^{249}_{101}\text{Md}$ . 6.

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### Nuclear Equations Worksheet Answers - superviral.tv

BALANCING NUCLEAR REACTIONS WORKSHEET ... Write the balanced nuclear equations for the alpha, beta and gamma decay of Radium-226 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?

### BALANCING NUCLEAR REACTIONS WORKSHEET

Equations can be written to show how a nucleus changes during a nuclear decay process. With these nuclear equations we track the atomic number and the mass number. For this reason it is important to correctly write the symbols for each particle involved.

#### 4-4NuclearEquations.pdf - Writing Nuclear Equations Name

Balance the following equations and indicate the type of reaction as formation, decomposition, single replacement, double replacement, hydrocarbon combustion, or other. a.

#### Worksheet: Writing and Balancing Chemical Reactions

Nuclear Chemistry Worksheet K Directions: Identify the following as alpha, beta, gamma, Name: Period: or neutron. Date: 231 90 91 Kr + 3 36 5. 6. 8. 9. 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. 3. Owl phcx bescx 10.

#### www.isd622.org

Balance these equations: Note ! 2  $4\text{He}$  is the only stable isotope of helium. 13.  $1\text{H} + 3\text{Li}$  14.  $4\text{Be} + \text{no}$  " \_\_\_\_ H + \_\_\_\_ He 15. What is the balanced nuclear equation for the reaction of curium-246 with carbon-12 to produce nobelium-254 and four neutrons? 16.

#### Balancing Nuclear Equations - Louisiana Tech University

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#### Writing Nuclear Equations Chem Worksheet 4 Answer Key Pdf

Write and balance nuclear equations Changes of nuclei that result in changes in their atomic numbers, mass numbers, or energy states are nuclear reactions . To describe a nuclear reaction, we use an equation that identifies the nuclides involved in the reaction, their mass numbers and atomic numbers, and the other particles involved in the reaction.

#### 21.2 Nuclear Equations â€“ Chemistry - opentextbc.ca

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