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How To Balance Nuclear Equations In Chemistry

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Academy GCSE Science

*Revision Physics \ "Nuclear Equations\ " Alpha Decay*

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~~Alpha Particles, Beta~~

~~Particles, Gamma Rays,~~

~~Positrons, Electrons,~~

~~Protons, and Neutrons~~

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Nuclear Reactions -

Radioactivity **Intro to**

**Radioactivity: Nuclear**

**Decay, Alpha, Beta, and**

**Gamma Rays | Doc Physics**

~~Gamma Decay Problems for~~

~~Chemistry~~

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Nuclear Half Life:

~~Calculations What are Alpha,~~

~~Beta and Gamma Decay? GCSE~~

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~~Physics — Nuclear Decay~~  
~~Equations #34 Writing~~  
~~Positron Decay Nuclear~~  
~~Equations Electron Capture~~  
~~Writing Beta Decay Nuclear~~  
~~Equations Gamma Decay~~  
~~Balancing Nuclear Equations,~~  
~~Alpha, Beta, Gamma Decay~~  
~~Balancing Chemical Equations~~  
~~Practice Problems Balancing~~  
~~nuclear equations by Dave~~  
~~Gardner Balancing Nuclear~~  
~~Reactions. (Chemistry Ch. 2,~~  
~~Part 2) Chemistry -~~  
~~Balancing Nuclear Reactions~~  
~~Writing Alpha Decay Nuclear~~  
~~Equations Unit 18.2:~~  
~~Transmutation Types \u0026~~  
~~Writing \u0026 Balancing~~  
~~Nuclear Equations Using~~  
~~Table N Balancing Nuclear~~  
~~Equations: Alpha | National~~

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~~5 Chemistry - Lesson 2~~

## Balancing Nuclear Equations Worksheet Answers

Explain how both mass number and atomic number have been conserved in equation 1. 3.

Write the nuclear symbol for the missing term in equation

2. 4. Write the nuclear symbol for the missing term in equation 3. 5. In

equation 4, name the particle represented by the nuclear symbol  ${}^1_0n$ . 6.

Write the nuclear symbol for the missing term in equation

...

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Balancing Nuclear Equations:

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Matter must be conserved including all  $p^+$  &  $n^0$ .

Example: Decay reaction ( $\alpha$  decay)  ${}_{86}^{215}\text{Po} \rightarrow {}_{84}^{211}\text{Pb} + {}_2^4\text{He}$

Fission Reaction:  ${}_{92}^{235}\text{U} + {}_0^1\text{n} \rightarrow {}_{36}^{92}\text{Kr} + {}_{56}^{141}\text{Ba} + 3 {}_0^1\text{n}$

Fusion Reaction:  ${}_{17}^{35}\text{Cl} + {}_1^1\text{H} \rightarrow {}_{18}^{36}\text{Ar} + \gamma$

another example:  $2 {}_1^2\text{H} + 1 {}_1^3\text{H} \rightarrow 2 {}_2^4\text{He} + 1 {}_0^1\text{n}$

Practice Fill in the missing symbol and name the reaction:

1.  ${}_{92}^{238}\text{U} \rightarrow {}_{90}^{234}\text{Th} + \text{_____}$

## Balancing Nuclear Equations

In this practice worksheet students will demonstrate balancing nuclear equations for mass and charge and then identifying the reaction as alpha, beta, or neutron decay. Materials needed:

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Please do not upload these to the internet, as students will find them and harm their learning and that of my

## Balancing Nuclear Equations Worksheets & Teaching ...

Worksheet - Balancing Nuclear Equations.

DIRECTIONS: Choose the correct answer for each question. Write the letter of the answer on the line to the right of the equation.

You will need a periodic chart to do this worksheet.

Identify the missing particle in the following nuclear reaction.  ${}_{84}^{214}\text{Po} + 2\text{}_{2}^{4}\text{He} + 2\text{}_{-1}^{0}\text{e} \rightarrow$  \_\_\_\_\_

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## Worksheet Answers

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- [scramlinged.com](http://scramlinged.com)

NUCLEAR EQUATIONS WORKSHEET

ANSWERS 1. Write a nuclear equation for the alpha decay of  $^{231}_{91}\text{Pa}$ .  
 $^{231}_{91}\text{Pa} \rightarrow ^4_2\text{He} + ^{227}_{89}\text{Ac}$

2. Write a nuclear equation for the beta decay of  $^{223}_{87}\text{Fr}$ .

$^{223}_{87}\text{Fr} \rightarrow ^0_{-1}\text{e} + ^{223}_{88}\text{Ra}$

3. Write a nuclear equation for the alpha and beta decay of  $^{149}_{62}\text{Sm}$ .  
 $^{149}_{62}\text{Sm} \rightarrow ^4_2\text{He} + ^0_{-1}\text{e} + ^{145}_{61}\text{Pm}$

NUCLEAR EQUATIONS WORKSHEET  
ANSWERS

c- -1. beta minus.

Bombarding plutonium-239 with an alpha particle creates an isotope of



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## Worksheet Answers

curium. Balance the equation.  ${}_{94}^{239}\text{Pu} + {}_2^4\text{He} \rightarrow (a)/(b)\text{Cm} + (c)/(d)\text{n}$ .

Identify the values for the unknown letters. a - 242. b - 96. c - 1.

### Balancing Nuclear Reactions Assignment and Quiz Flashcards ...

Use the conservation laws to find an unknown in a nuclear reaction equation. Write a balanced nuclear equation for a natural transmutation. Prerequisites atomic symbols including mass number, atomic number, and charge Information  ${}_2^4\text{He}$  = a helium nucleus, also known as an alpha particle = an electron, also known as a

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Worksheet Answers  
beta particle when emitted by a nucleus Model The following are two nuclear reaction equations:  $4\text{ He} + {}_{82}^{216}\text{At} \rightarrow {}_{84}^{160}\text{Po} + {}_{87}^{160}\text{IV} + \dots$

## Ms. Demonte's Chemistry Classes - Home

If you also get perplexed in balancing chemical equations, follow the tips for correct balancing chemical equations worksheet answers. Tip # 1: When you are trying to balance the chemical equations, you should remember that you can only change the value of coefficient in front of the element or compound, and not the subscript.

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## Worksheet Answers

### 49 Balancing Chemical Equations Worksheets [with Answers]

beta particle ( $e^-$ ) + Ca-40.

beta particle ( $e^-$ ) + O-13.

The following all undergo electron capture. Write the complete nuclear equation.

electron ( $e^-$ )  $\rightarrow$  Pd-106. +

electron ( $e^-$ )  $\rightarrow$  In-116.

electron ( $e^-$ )  $\rightarrow$  Ir-190.

electron ( $e^-$ )  $\rightarrow$  Te-123. The following all undergo positron emission.

### Nuclear decay worksheet - CTE Online

A balanced nuclear reaction equation indicates that there is a rearrangement during a nuclear reaction,

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but of subatomic particles rather than atoms. Nuclear reactions also follow conservation laws, and they are balanced in two ways: The sum of the mass numbers of the reactants equals the sum of the mass numbers of the products.

## 21.2 Nuclear Equations - Chemistry

BALANCING NUCLEAR REACTIONS  
WORKSHEET Predict the missing product or reactant in the following nuclear reactions. Determine the type of nuclear reaction ( $\alpha$  emission,  $\beta$  emission,  $\gamma$  emission, positron emission, artificial transmutation, fission, or fusion)

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Worksheet Answers described. Type of Nuclear Reaction 1.)  ${}_{42}^{198}\text{K} \rightarrow {}_{42}^{197}\text{K} + {}_{-1}^0\text{e}$  + \_\_\_\_\_ 1.) 2.)  ${}_{94}^{239}\text{Pu} \rightarrow {}_{92}^{235}\text{U} + {}_{2}^4\text{He}$  + \_\_\_\_\_ 2.) 3.)  ${}_{92}^{235}\text{U} \rightarrow {}_{90}^{231}\text{Th} + {}_{2}^4\text{He}$  + \_\_\_\_\_ 4.) ...

## BALANCING NUCLEAR REACTIONS WORKSHEET

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Worksheet Answers Key |

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Section 3: Balancing Nuclear Equations. Balance the following nuclear equations. Identify each as alpha decay, beta decay, gamma decay, electron capture, or positron emission. ... Round your answer to the nearest 10,000 years. After 500 years, a sample of radium-226 has decayed to 80.4% of its original mass. Find the half-life of radium-226.

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Equations Answer Key

sailingsolution it. These

reactions result either in

the nucleus ...

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Predict the missing product or reactant in the following nuclear reactions. Determine the type of nuclear reaction (a emission, B emission, y emission, positron emission, artificial transmutation, fission, or fusion) described.

## Solved: NUCLEAR CHEMISTRY BALANCING NUCLEAR REACTIONS WORK ...

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