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Answer Key  
Equations

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**Writing nuclear  
equations for alpha,  
beta, and gamma**

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*To Balance Nuclear*

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Writing Nuclear

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~~Writing Beta Decay~~

~~Nuclear Equations~~

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~~Beta Decay, Positron~~

~~Emission, and~~

~~Electron Capture~~

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(Part 1)

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Gamma Rays |  
Nuclear Radiation  
Explained | Doc

Physics **National 5:**  
**Nuclide Notation**

~~Writing Systems of  
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Nuclear Half Life:

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Nuclear Equations

**Math Help : How to  
Write an Equation**

*How to Find the  
Missing Particle in a  
Nuclear Reaction*

*Antimatter Explained*

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Practice Problem:

Nuclear Reactions

**Writing Alpha Decay**

**Nuclear Equations**

*GCSE Physics -*

*Page 7/36*

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## PDF Writing

*Nuclear Decay*  
*Equations #34*  
Radioactive Decay  
Nuclear  
Equations

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Writing Nuclear  
Equations for Alpha  
Decay Alpha Particles,  
Beta Particles,  
Gamma Rays,  
Positrons, Electrons,  
Protons, and  
Neutrons

---

Balancing nuclear



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## PDF Writing

equations Alpha

Decay **Writing**

**Nuclear Equations**

**Answer Key**

Writing Nuclear

Equations KEY Write

nuclear equations that

describe the following

processes. 1.

Uranium-235

undergoes an alpha

decay to produce

thorium-231. 2.

Lanthanum -144

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becomes cerium-144 when it undergoes a beta decay. 3.

Neptunium-233 is formed when americium-237 undergoes a nuclear decay process. 4.

**Writing Nuclear Equations KEY - Strona Główna**  
Nuclear Equation Practice Answer Key

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Write the nuclear equation for this reaction and identify the two other particles.

$${}_{0}^{1}n + {}_{92}^{235}\text{U} \rightarrow {}_{52}^{137}\text{Te} + {}_{40}^{97}\text{Zr} + 2\text{?}$$

The two other particles formed are neutrons.

## **Nuclear Equation Practice Answer Key**

Nuclear Equations 1.  
Bombardment of

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## PDF Writing

aluminum-27 by alpha particles produces phosphorous-30 and one other particle.

Write the nuclear equation for this reaction and identify the other particle.  ${}_{13}^{27}\text{Al} + {}_2^4\text{He} \rightarrow {}_{15}^{30}\text{P} + ?$

The other particle formed is a neutron  ${}_0^1\text{n}$ .

Plutonium-239 can be produced by

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bombarding

uranium-238 with  
alpha particles.

Answer Key

## **KEY - Nuclear Equations**

20 nuclear equations  
worksheet answers  
for learning decay  
equation problems  
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## Writing Nuclear Equations Worksheet Answer Key - Tessshebaylo

49 Balancing  
Chemical Equations  
Worksheets [with  
Answers] Writing  
Nuclear Equations  
KEY Write nuclear  
equations that  
describe the following  
processes. 1.  
Uranium-235

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undergoes an alpha decay to produce thorium-231. 2.

Lanthanum -144

becomes cerium-144 when it undergoes a beta decay. 3.

Neptunium-233 is formed when americium-237 undergoes

## **Nuclear Equation Practice Answer Key**



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### -Orris

### 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  $^{223}_{87}\text{Fr}$ .

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

3. Write a

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## PDF Writing

Nuclear equation for  
the alpha and beta  
decay of  $^{149}_{62}\text{Sm}$ .  
 $^{149}_{62}\text{Sm} \rightarrow ^4_2\text{He} +$   
 $^{145}_{60}\text{Nd} + e^{-} + \bar{\nu}_e$

### **NUCLEAR EQUATIONS WORKSHEET ANSWERS**

Write a balanced  
nuclear equation for a  
natural transmutation.  
Prerequisites atomic

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## PDF Writing

symbols including  
mass number, atomic  
number, and charge

Information  ${}^4_2\text{He}$  = a  
helium nucleus, also  
known as an alpha  
particle = an electron,  
also known as a beta  
particle when emitted  
by a nucleus Model

The following are two  
nuclear reaction  
equations:  ${}^4_2\text{He} + {}^{216}_{85}\text{At}$

${}^{16}_8\text{O} \rightarrow \dots + {}^{16}_7\text{N} + \dots$

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160 Nuclear

Equations

**Ms. Demonte's  
Answer Key  
Chemistry Classes -  
Home**

Identify common particles and energies involved in nuclear reactions. Write and balance nuclear equations. Changes of nuclei that result in changes in their atomic numbers,

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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.

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### Nuclear

#### **21.2 Nuclear Equations – Chemistry**

12. Write a balanced nuclear equation for each decay process indicated.

a. The isotope Th-234 decays by an alpha emission.

b. The isotope Fe-59 decays by a beta emission.

c. The isotope Tc-99

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decays by a gamma emission. d. The isotope C-11 decays by a electron capture. Balance these equations: Note !  $^4_2\text{He}$  is the only stable isotope of helium ...

### **Balancing Nuclear Equations**

$^{92}_{238}\text{U}$ . That 92 is the atomic number, which is the number

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of protons. That 238 is the mass number, which is the sum of the protons and the neutrons. Lastly, remember that you have to do a subtraction to get the number of neutrons:  $238 - 92 = 146$ .

**ChemTeam: Writing  
Alpha and Beta**

*Page 24/36*



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### Equations

Write the complete nuclear equation. beta particle ( $e^-$ ) + N-14.

beta particle ( $e^-$ ) + Y-90. beta particle ( $e^-$ ) + Ca-40. beta particle ( $e^-$ ) + O-13.

The following all undergo electron capture. Write the complete nuclear equation. electron ( $e^-$ ) ? Pd-106. + electron

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(e-) ? In-116.

## Equations **Nuclear decay worksheet - CTE Online**

Writing nuclear equations for alpha, beta, and gamma decay. ... So for representing an alpha particle in our nuclear equation, since an alpha particle has the same composition as

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## PDF Writing

a helium nucleus, we put an He in here, and it has two positive charges, so we put a two down here, and then a total of four nucleons, so we put a four here. ...

**Writing nuclear equations for alpha, beta, and gamma decay ...**

After completing this I

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will again take  
volunteers to write the  
problems from this  
section on the board  
as seen on the  
answer key. Students  
generally do very well  
on this activity and  
learn the basic format  
for writing a nuclear  
equation. This can be  
seen in the EL  
Nuclear Decay  
student work this

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provided. This activity  
build a solid  
foundation ...

Answer Key

**Ninth grade Lesson  
Day 1: Radioactive  
Decay Using A  
Gizmo.**

Writing Nuclear  
Equations Worksheet  
4 Answer Key  
Tessshlo. Writing  
Nuclear Equations  
Worksheet 4 Answer

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**Writing Nuclear  
Equations Chem**

*Page 30/36*

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## **Worksheet 4 Answer Key ...**

The mesmerizing pics  
below, is section of  
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is definitely the key to  
a better tomorrow,  
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helpful content  
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appropriate for  
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purpose.

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Nuclear equations that describe the following processes. 1.

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Neptunium-233 is formed when Page

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