

Writing Nuclear Equations

Chem Worksheet 4-4

Name _____

In the early 1900s scientists discovered that various isotopes will undergo nuclear decay. During this process the unstable nucleus of an atom gives off radiation. When scientists studied this radiation they discovered three types of particles: alpha, beta, and gamma. The **alpha particle** is composed of two protons and two neutrons, so it has a mass of 4 amu and a charge of 2+. A **beta particle** is a high-energy electron emitted from the nucleus. A **gamma ray** often accompanies the other decay processes. Gamma radiation has no charge and no mass.

Radiation Type	Symbol	Mass (amu)	Charge
Alpha	${}^4_2\text{He}$ or ${}^4_2\alpha$	4	2+
Beta	${}^0_{-1}e$ or ${}^0_{-1}\beta$	$\frac{1}{1836}$	1-
Gamma	${}^0_0\gamma$	0	0

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. 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.



Rewrite the following equations. Fill in all the missing information.



Write nuclear equations that describe the following processes.

- Uranium-235 undergoes an alpha decay to produce thorium-231.
- Lanthanum-144 becomes cerium-144 when it undergoes a beta decay.
- Neptunium-233 is formed when americium-237 undergoes a nuclear decay process.
- When protactinium-229 goes through two alpha decays, francium-221 is formed.
- Uranium-238 undergoes an alpha decay and produces two gamma rays.
- The neon-22 nucleus is formed when an element undergoes a beta decay.
- Samarium-146 is produced when an element undergoes an alpha decay.
- The beta decay of dysprosium-165 creates a new element.

Answer the following questions. Include the mass number when naming isotopes.

- What atom produces scandium-47 when it goes through a beta decay?
- What new element is formed when curium-244 emits two alpha particles and three gamma rays?

Writing Nuclear Equations Answer Key

Effiong Eyo

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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Prentice Hall Chemistry, 2000

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phase transitions gas vapor meson condensation quark gluon plasma plays an important role in the static and dynamical behavior of stars especially in supernova explosions and in neutron star stability The investigation on the nuclear equation of state can only be accomplished in the laboratory by compressing and heating up nuclear matter and the only mechanism known to date to achieve this goal is through shock compression and heating in violent high energy heavy ion collisions This key mechanism has been proposed and highly disputed in of high energy heavy ion physics the early 70 s It plays a central role in the whole field and particularly in our discussions during the two weeks at Peiiscola **Shriver and Atkins'**

Inorganic Chemistry Peter Atkins,2010 Inorganic Chemistry fifth edition represents an integral part of a student s chemistry education Basic chemical principles are set out clearly in Foundations and are fully developed throughout the text culminating in the cutting edge research topics of the Frontiers which illustrate the dynamic nature of inorganic chemistry

General Chemistry Workbook Daniel C. Tofan,2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material **Understanding Chemistry** Fred M. Dewey,1994 **Hamiltonian Systems** Albert

Fathi,Philip J. Morrison,Tere M-Seara,Sergei Tabachnikov,2024-05-09 A selection of results spanning a broad spectrum of disciplines from the MSRI program on Hamiltonian Systems during Fall 2018

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