

4. **Practice:** Click **Reset**, turn off **Show equation**, and select **Polonium**. Write an equation for the alpha decay of polonium, and then use the Gizmo to check your answer.



What isotope remains after the alpha decay of polonium-212?

Pb-208

5. **Practice:** Click **Reset**, turn off **Show equation**, and select **Radium**. Write an equation for the alpha decay of radium, and then use the Gizmo to check your answer.



What dangerous gas is produced by the decay of radium-226?

Rn-222

6. **Practice:** Americium-241 is a radioactive isotope used in smoke detectors. Write an equation for the alpha decay of Americium-241 below.



7. **Analyze:** In each equation, how is the mass number on the left side of the arrow related to the sum of mass numbers on the right side of the arrow? Is this true for atomic numbers?

They are balanced, and atomic numbers are included in this.

8. **Summarize:** In general, how can you determine the mass number of the daughter product after alpha decay has taken place? How can you determine the atomic number?

The original mass number is decreased by 4. By deducting 2 from the original atomic number, you can calculate the new one.

9. **Think and discuss:** Helium is the second most abundant element in the universe, but it is rare in Earth's atmosphere. Most of the helium used to fill balloons and blimps must be extracted from Earth's crust. How do you think this helium formed?

The alpha particles released by radioactive isotopes are what create this helium.

Radioactive Decay Answer Key

Robert E. Masterson



Radioactive Decay Answer Key:

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In a digitally-driven earth where monitors reign supreme and immediate interaction drowns out the subtleties of language, the profound secrets and emotional nuances concealed within words often move unheard. Yet, situated within the pages of **Radioactive Decay Answer Key** a captivating literary value pulsating with natural feelings, lies a fantastic quest waiting to be undertaken. Published by an experienced wordsmith, that marvelous opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the fabric of each word. Within the mental depths of the poignant review, we can embark upon a sincere exploration of the book's primary themes, dissect its charming publishing design, and succumb to the powerful resonance it evokes serious within the recesses of readers' hearts.

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