

Activity A:
Alpha decay

Get the Gizmo ready:

- Click **Reset** (↺).
- Check that **Alpha decay** and **Uranium** are selected.



Question: How does alpha decay change the nucleus of a radioactive atom?

1. **Predict:** As you observed in the warm-up activity, an alpha particle consists of two protons and two neutrons. How will the emission of an alpha particle affect the following?

- A. The atomic number of the atom:
- B. The mass number of the atom:

decrease by two

decrease by four

2. **Calculate:** Turn on **Write equation**. What you see is an equation that shows the original uranium atom on the left. The boxes on the right represent the **daughter product**—the atom produced by radioactive decay—and the emitted alpha particle.

- A. In the top left box, write the mass number of the daughter product and press "Enter" on your keyboard. What is this number?

234

- B. In the bottom left box, write the atomic number of the daughter product and press "Enter." What is this number?

90

- C. Click on the picture below, select edit. Enter the mass number and atomic number of the alpha particle, which has the same composition as the nucleus of a helium (He) atom. After filling in the boxes in the Gizmo, write the completed equation below:



- D. According to your equation, what **isotope** remains after the alpha decay of uranium-238? (Note: You can look up element symbols on the periodic table.)

Th - 234

3. **Check:** Turn on **Show equation**, and click **Play**. The equation will appear at the end of the animation. Was your prediction correct? **Yes** If not, modify your equation above.

Key Terms Nuclear Changes Answer Key

Kathleen Armour



Key Terms Nuclear Changes Answer Key:

Unveiling the Magic of Words: A Review of "**Key Terms Nuclear Changes Answer Key**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Key Terms Nuclear Changes Answer Key**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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