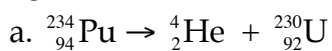


Assignment Sheet #1 APQ answers

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b. "Mass defect"; some matter is converted into kinetic energy during the decay.

c. The alpha (α) particle ray will bend downward due to its 2+ charge.

The beta (β) particle ray will bend upward due to its 1- charge.

The gamma (γ) ray will travel unchanged through the field.

d. Incineration is a chemical change involving electrons and chemical bond rearrangements. There is no nuclear change during simple chemical changes, so the radioactive nuclei continue to decay.