

NUCLEAR DECAY

Name: _____

Period: _____

Predict the products of the following nuclear reactions.



11. Bombardment of aluminum-27 by alpha particles produces phosphorus-30 and one other particle. Write the nuclear equation for this reaction and identify the other particle.



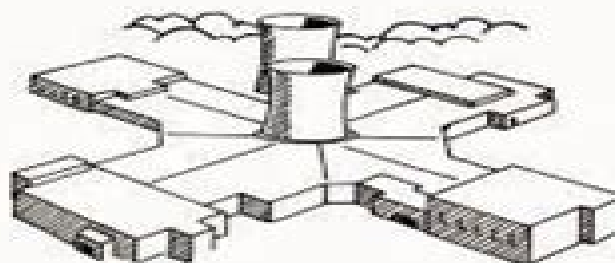
12. Plutonium-239 can be produced by bombarding uranium-238 with alpha particles. How many neutrons will be produced as a by product of each reaction? Write the nuclear equation for this reaction.



13. Neutron bombardment of plutonium-239 yields americium-240 and another particle. Write the nuclear equation and identify the other particle produced.



14. Alpha-particle bombardment of plutonium-239 produces a neutron and another isotope. Write the nuclear equation for this reaction and identify the isotope.



Practicing Nuclear Equations Answer Key

Rosina Ehmann



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