

Name _____

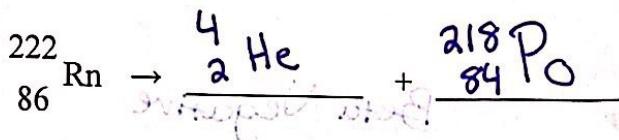
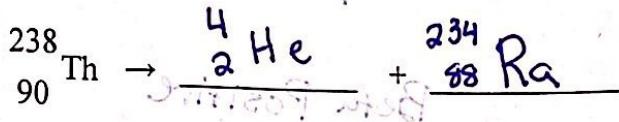
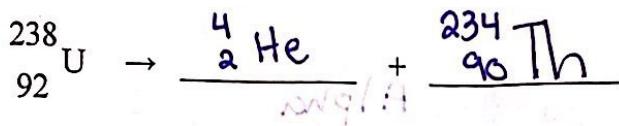
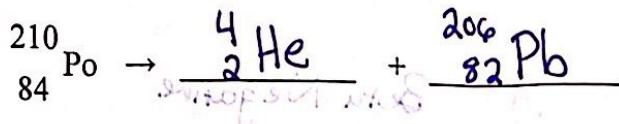
Key

Honors

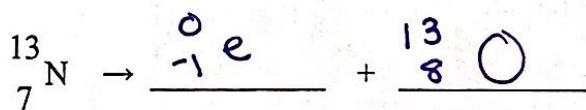
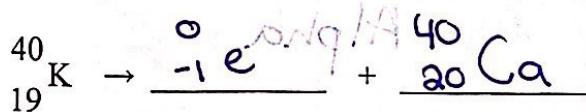
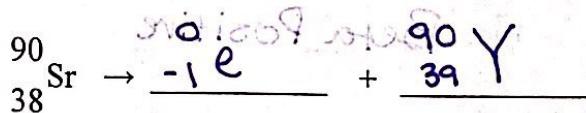
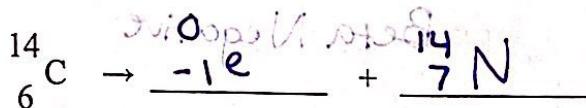
Date _____

Nuclear Decay

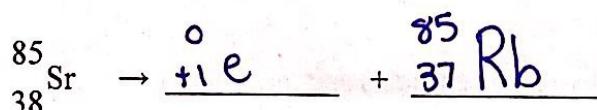
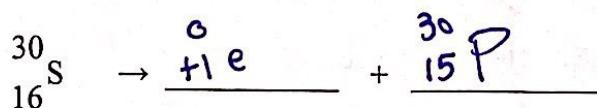
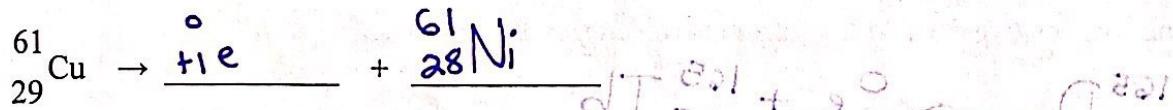
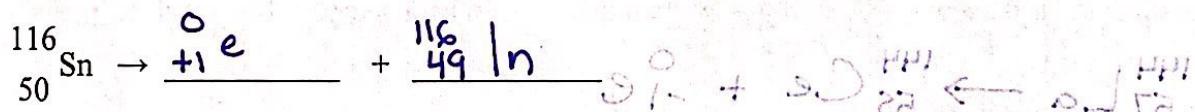
The following atoms all undergo alpha particle emission. Write the complete nuclear equation.



The following atoms all undergo beta negative decay. Write the complete nuclear equation.



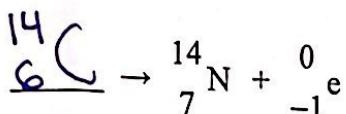
The following all undergo beta positive (positron) decay. Write the complete nuclear equation.



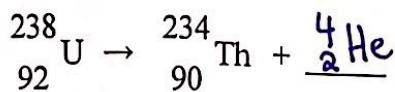
Name _____ Date _____

Complete the missing information in the reactions. Then, label the reaction one of the following:

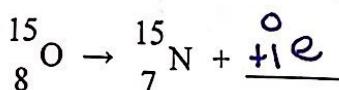
- Alpha Decay
- Gamma Radiation
- Beta Negative Decay
- Beta Positive Decay



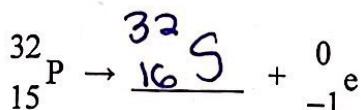
Type: Beta Negative



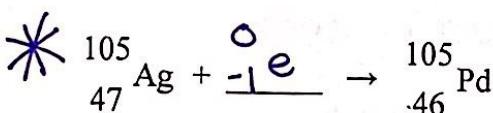
Type: Alpha



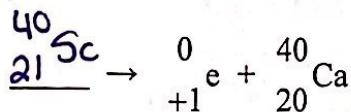
Type: Beta Positive



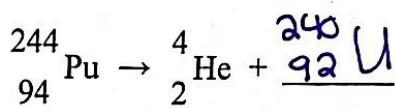
Type: Beta Negative



Type: Beta Negative



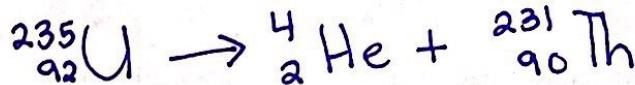
Type: Beta Positive



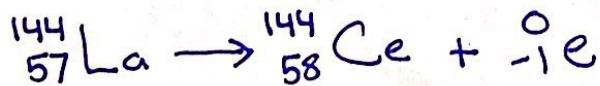
Type: Alpha

Write nuclear equations that describe the following processes:

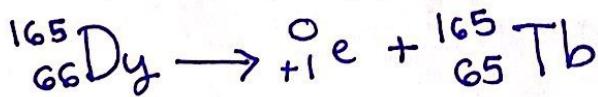
- Uranium-235 undergoes alpha decay to produce Thorium-231.



- Lanthanum-144 becomes Cerium-144 when it undergoes a beta decay.



- The beta positive decay of Dysprosium-165 creates a new element.



What atom produces Scandium-47 when it goes through a beta negative decay?

Calcium-47

What new element is formed when Curium-244 emits two alpha particles and three gamma rays?

