

Name \_\_\_\_\_ Period \_\_\_\_\_

College Prep Chemistry

Assignment 1P – Nuclear Decay Chains

20 Points

Answer the following questions based on the in class notes

What is a nuclear decay chain?	What is the end product of any chain?
A series of nuclear decays that lead to a stable isotope	An isotope with a stable Z-Ratio / Structure

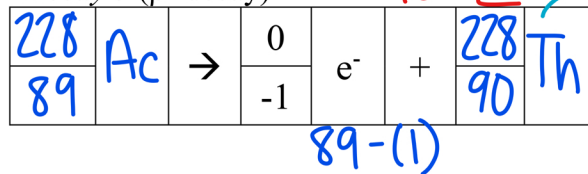
Complete the following nuclear decay chain

Thorium-232 Decay Chain

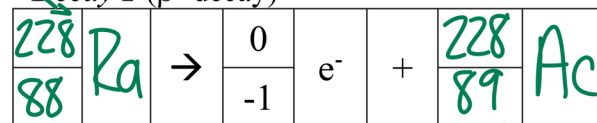
Decay 1 (α decay)



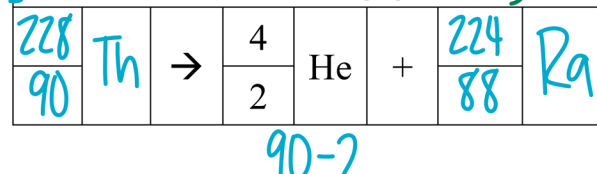
Decay 3 (β- decay)



Decay 2 (β- decay)



Decay 4 (α decay)



Decay 30