

Name _____ Period _____

College Prep Chemistry

Assignment 1N – Alpha (α) Decay Processes

20 Points

Answer the following questions based on the in class notes

What is an alpha decay particle?	Why does alpha (α) decay occur in an atom?
$2p^+$ and $2n^0$ <u>OR</u> ${}^4_2\text{He}$ nucleus (no e^-)	Atom too Large $Z_{\text{ratio}} > 1.5$

Complete the following nuclear decay equations showing the alpha decay of common alpha emitting isotopes. (Right: -) (Left: +)

