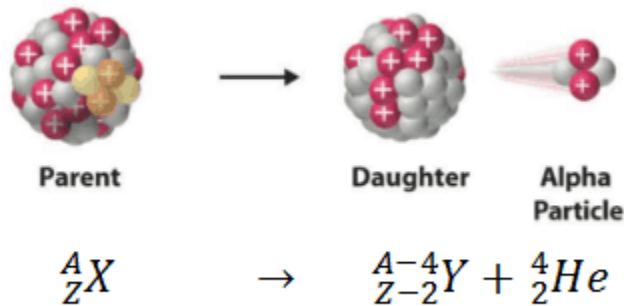


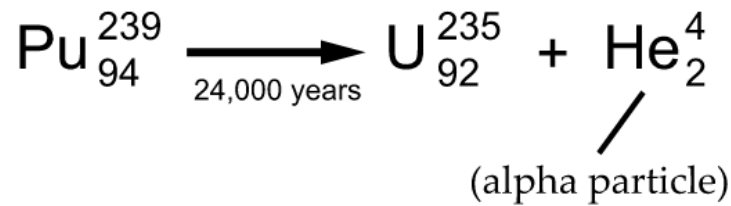
## Nuclear Decay Modes

Unstable nuclei transform into more stable nuclei by decaying. Nuclear decay is the process of nuclei ejecting particles and/or energy in an attempt to become more stable. For most radionuclides there are several decay steps in the series, each of which takes a certain time to occur. These decay steps can range from a fraction of a second to hundreds of thousands or even millions of years. We will learn more about these decay series later.

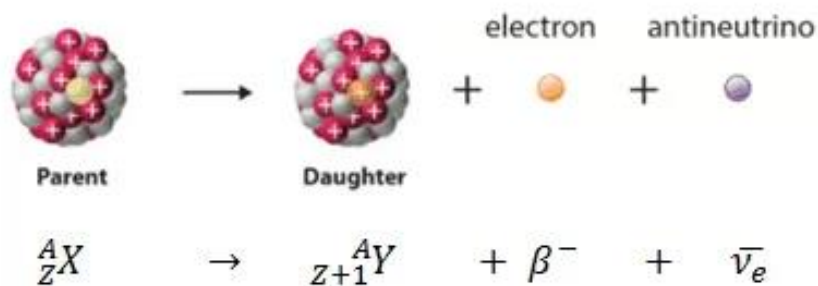
### Alpha Decay



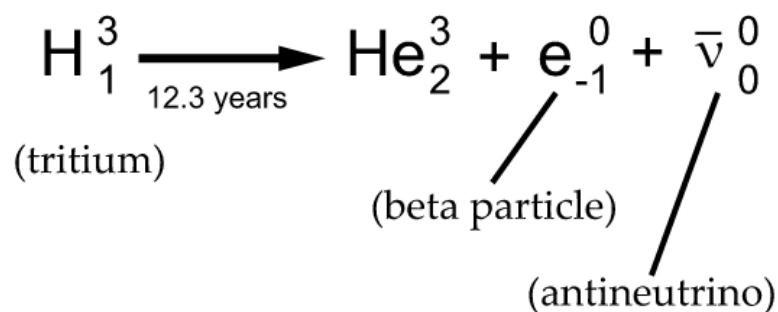
Example:



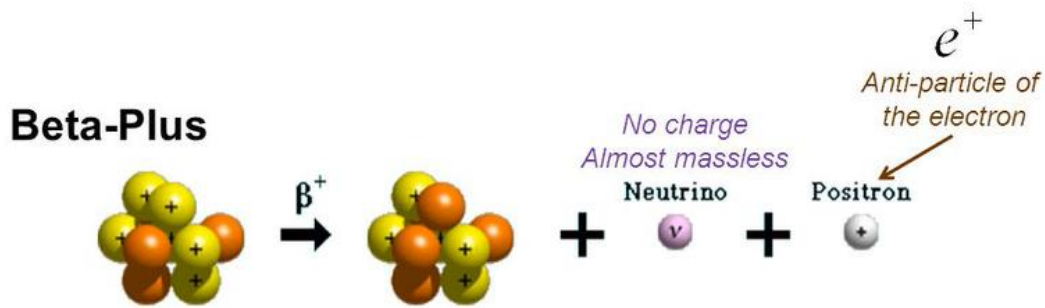
### Beta Minus (-) Decay: Electron Emission



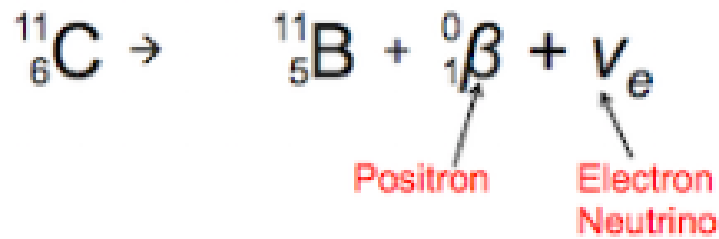
Example:



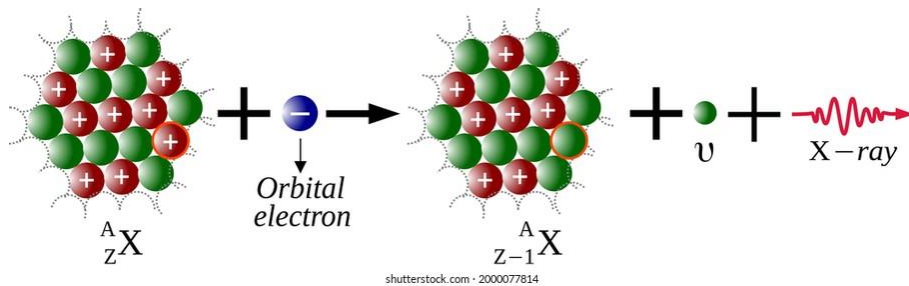
## Beta Plus (+) Decay: Positron Emission



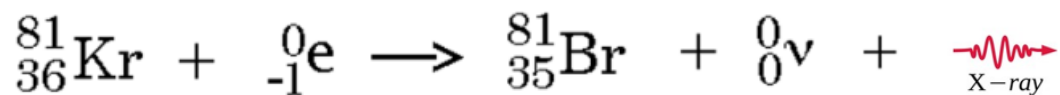
Example:



## Electron Capture



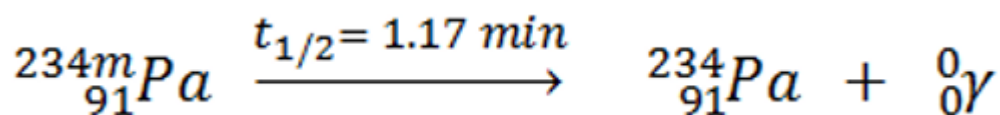
Example:



## Gamma Emission



Example:



# Decay Mode Chart

