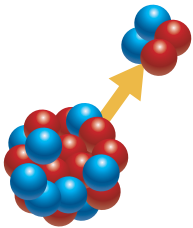


# Radioactivity

## Alpha Decay

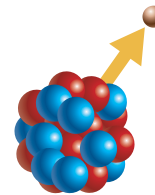
Nucleus ejects a helium-4 nucleus



Protons	Decrease by 2
Neutrons	Decrease by 2
Atomic number	Decreases by 2
Mass number	Decreases by 4

## Beta Decay

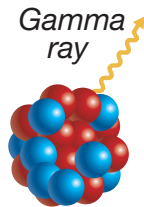
Nucleus converts a neutron to a proton and an electron, ejecting the electron.



Protons	Increase by 1
Neutrons	Decrease by 1
Atomic number	Increases by 1
Mass number	Stays the same

## Gamma Decay

Nucleus emits gamma radiation and lowers its energy.



Protons	Stays the same
Neutrons	Stays the same
Atomic number	Stays the same
Mass number	Stays the same