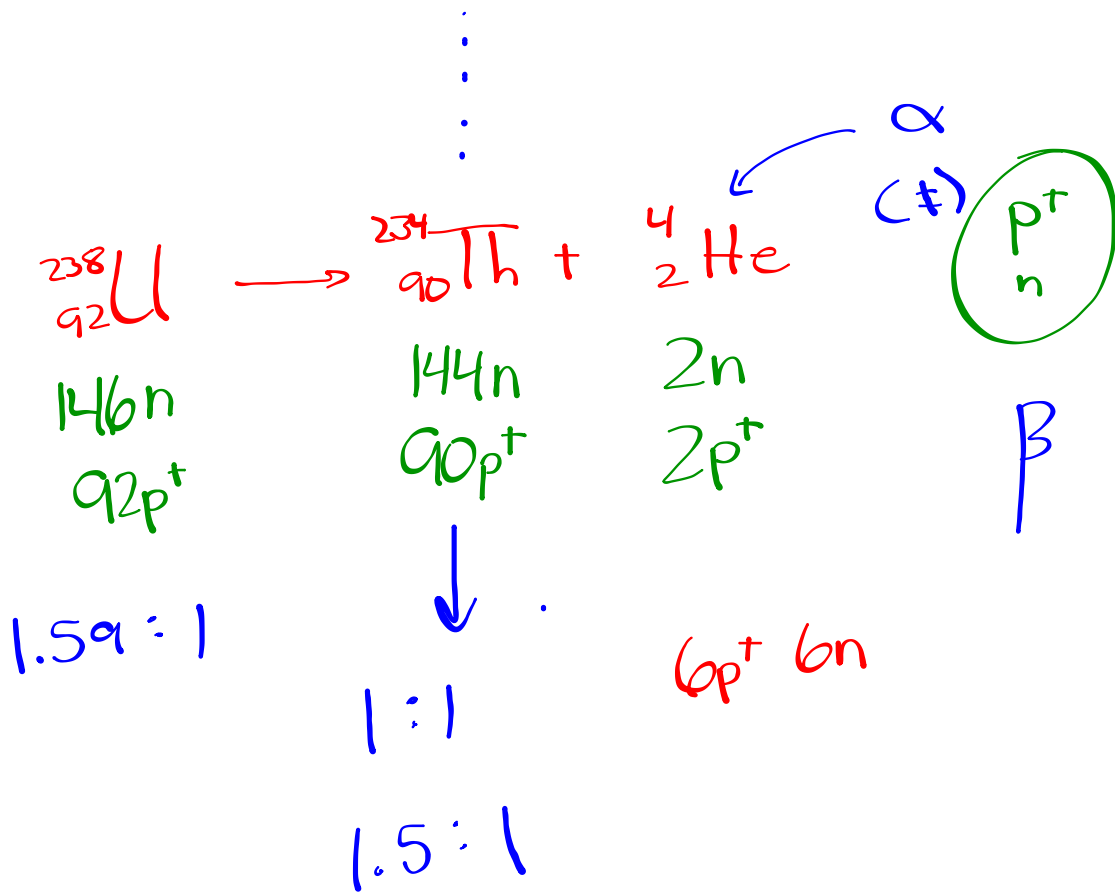
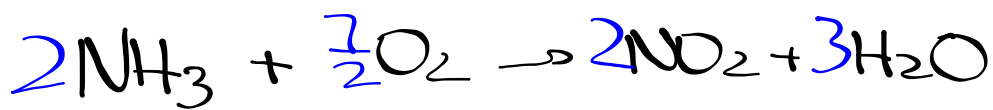


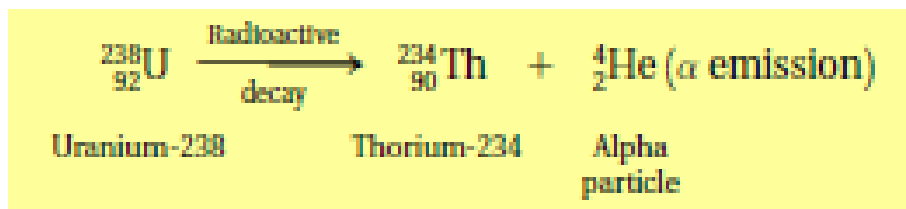
Chemical Reactions

- Atoms change electrons configurations (gain, lose, share) in order to obtain configuration of a noble gas (stable)
- Rearrangement of atoms
- Can be affected by changing temperature, pressure or by adding a catalyst



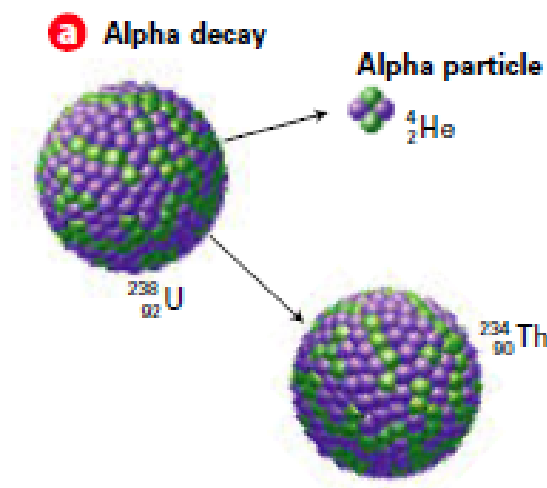
Alpha Radiation

Radiation consisting of helium nuclei that have been emitted from a radioactive source.



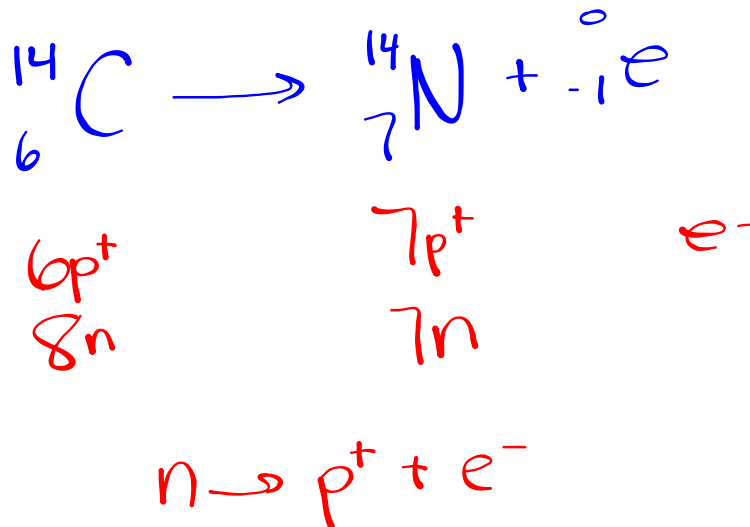
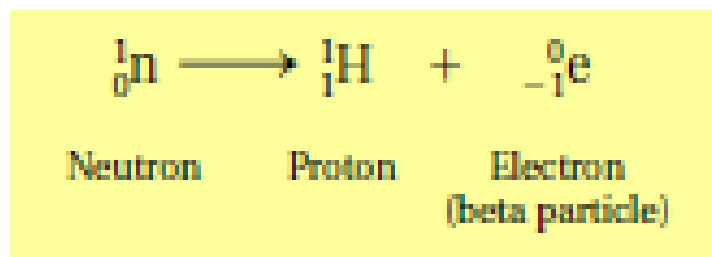
Balanced equation?

Size and charge (++) cause the particle to be not very penetrating.

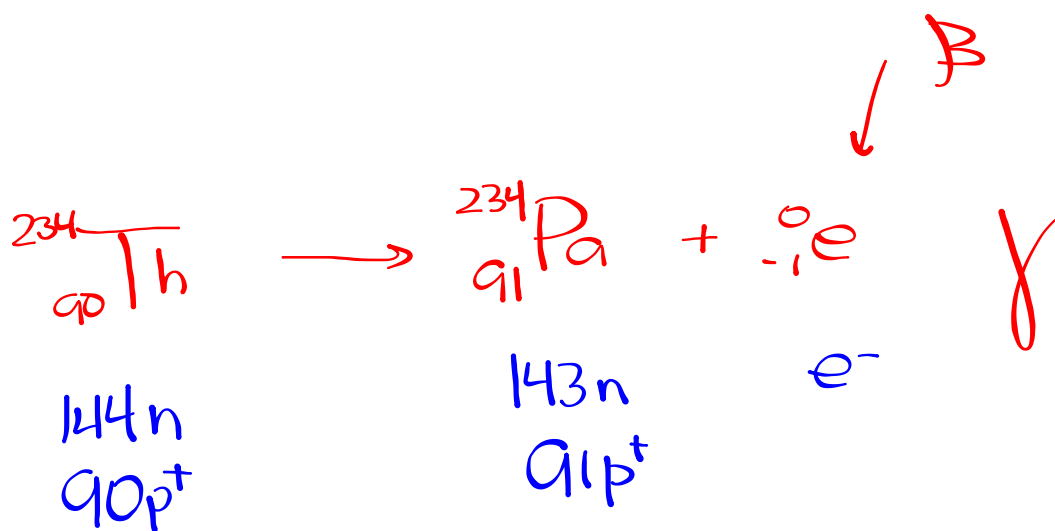


Beta Radiation

An electron resulting from the breaking apart of a neutron into a proton and electron.



Because beta particles have less mass and less charge than alpha particles, making them more penetrating.

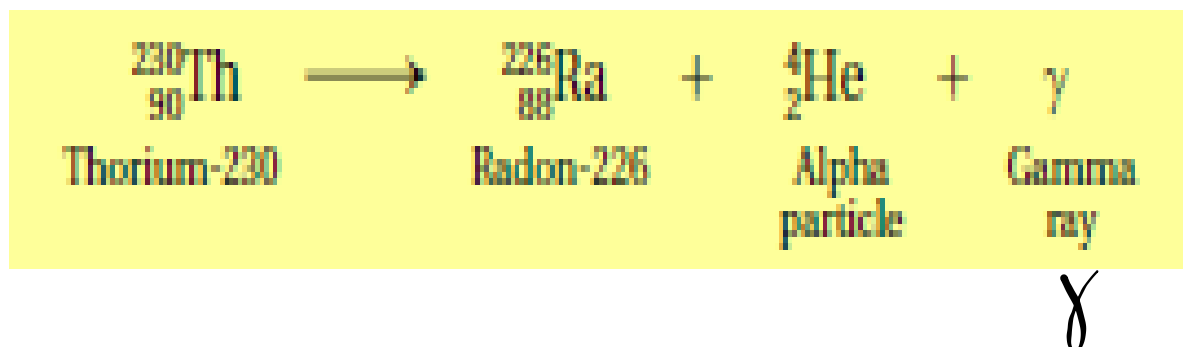




Gamma Radiation

A high-energy photon that is emitted from a radioisotope. These are often emitted along with alpha and beta particles.

α β γ



Because gamma rays have no mass and no charge, they are extremely penetrating and damaging.

p. 802 #1-6