

**REFER TO TABLE IN
NUCLEAR EQUATIONS**

DECAY MODE:

ALPHA DECAY (α)

Aim: How do we write nuclear equations?

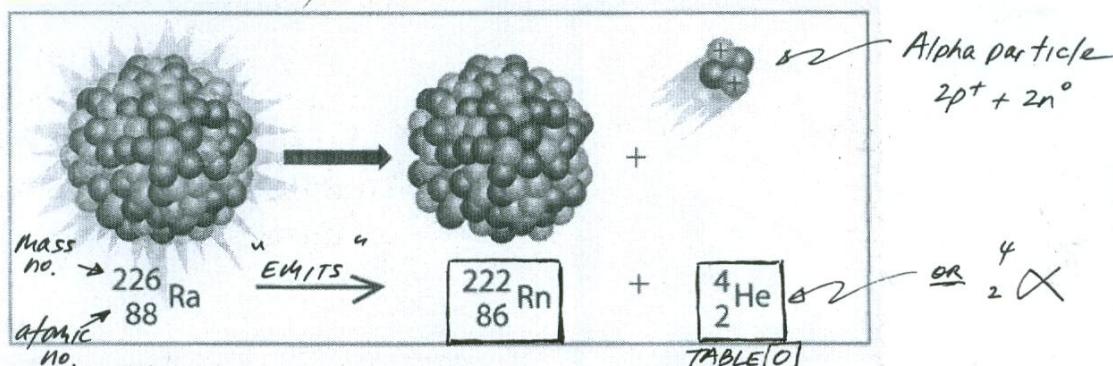
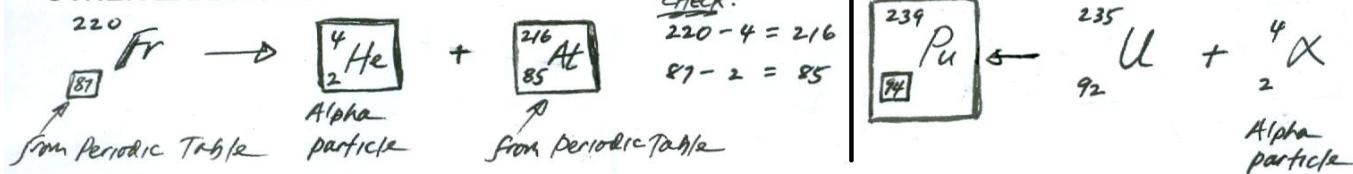


Figure 12-3. Alpha decay: In alpha decay, a nucleus ejects an alpha particle and becomes a smaller nucleus with less positive charge.

OTHER EXAMPLES:



BETA DECAY (β^-)

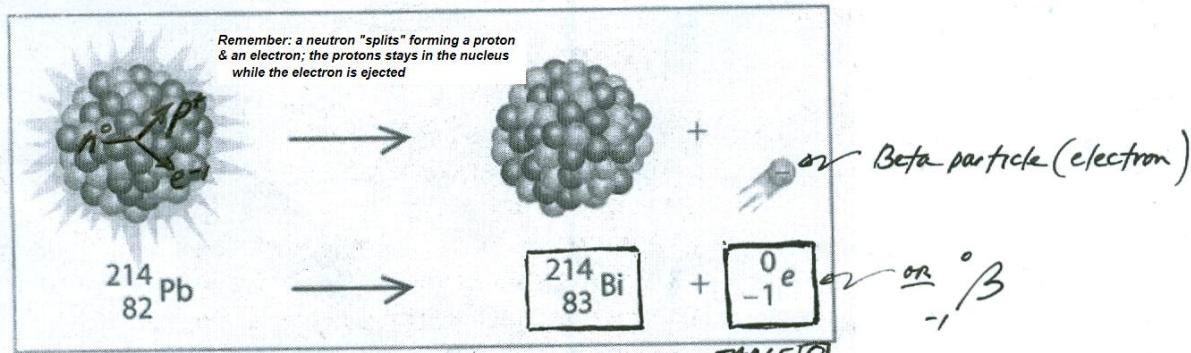
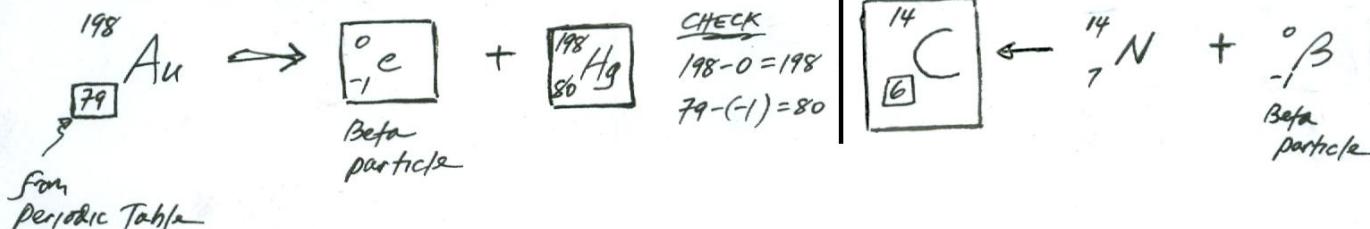
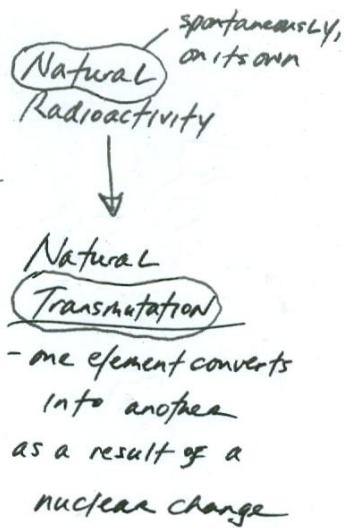
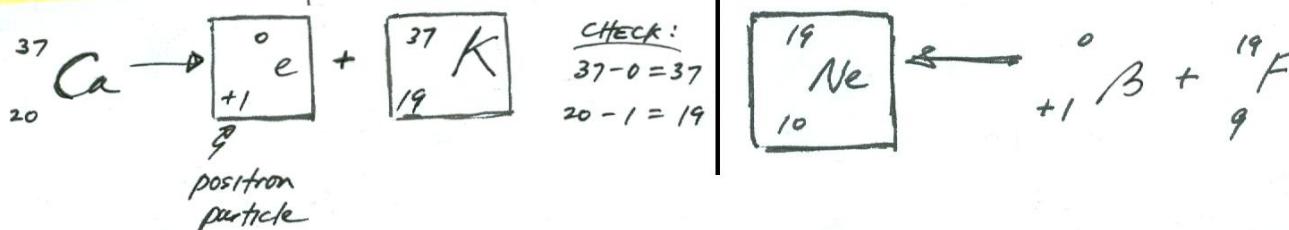


Figure 12-4. Beta decay: Beta decay has the effect of turning a neutron in the nucleus into a proton and an electron.

OTHER EXAMPLES:



POSITRON EMISSION (β^+)



REMEMBER: $\xrightarrow{\text{minus}}$ $\xleftarrow{\text{plus}}$