Examples of isotope equations involving alpha decay, beta decay, and gamma radiation

1. Alpha decay: $^{238}_{92}\mathrm{U} \longrightarrow {}^{234}_{90}\mathrm{Th} + {}^{4}_{2}\mathrm{He}$
2. Beta decay: $^{14}_{6}\mathrm{C} \longrightarrow {}^{14}_{7}\mathrm{N} + \mathrm{e}^{-} + \bar{\nu}_e$
3. Gamma radiation: $^{60}_{27}\mathrm{Co} \longrightarrow {}^{60}_{28}\mathrm{Ni} + \mathrm{e}^{-} + \bar{\nu}_e + \gamma$
4. Alpha decay: $^{226}_{88}\mathrm{Ra} \longrightarrow {}^{222}_{86}\mathrm{Rn} + {}^{4}_{2}\mathrm{He}$
5. Beta decay: $^{40}_{19}\mathrm{K} \longrightarrow {}^{40}_{20}\mathrm{Ca} + \mathrm{e}^{-} + \bar{\nu}_e$
6. Gamma radiation: $^{99m}_{43}\mathrm{Tc} \longrightarrow {}^{99}_{43}\mathrm{Tc} + \gamma$
7. Alpha decay: $^{210}_{84}\mathrm{Po} \longrightarrow {}^{206}_{82}\mathrm{Pb} + {}^{4}_{2}\mathrm{He}$
8. Beta decay: $^{3}_{1}\mathrm{H} \longrightarrow {}^{3}_{2}\mathrm{He} + \mathrm{e}^{-} + \bar{\nu}_e$
9. Gamma radiation: $^{137m}_{55}\mathrm{Cs} \longrightarrow {}^{137}_{55}\mathrm{Cs} + \gamma$
10. Alpha decay: $^{235}_{92}\mathrm{U} \longrightarrow {}^{231}_{90}\mathrm{Th} + {}^{4}_{2}\mathrm{He}$