Rules for Writing Ionic and Net Ionic Equations

1. Write all molecular compounds in molecular form.

Examples: $C_{11}H_{22}O_{11}(aq)$ $H_2O(I)$ $CO_2(g)$

2. Write all weak electrolytes in molecular form.

Examples: $CH_3CO_2H(aq)$ **Not** $H^+(aq) + CH_3CO_2(aq)$

 $NH_3(aq)$ Not $NH_4^+(aq) + OH^-(aq)$

3. Write soluble strong electrolytes as ions and insoluble strong electrolytes as combined solids (i.e., "molecular" form).

Examples: $NaCl(aq) = Na^{+}(aq) + Cl^{-}(aq)$

AgCl(s) = AgCl(s)