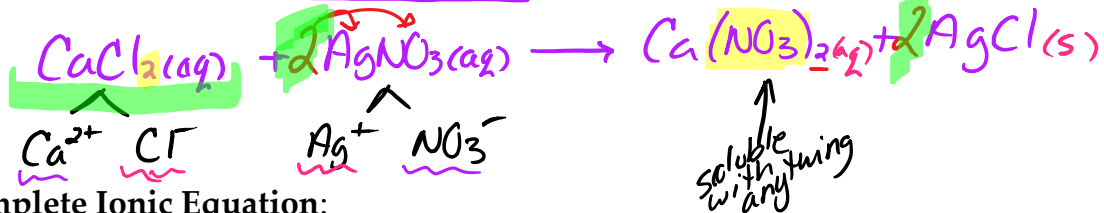


V) Formula, Complete Ionic, and Net Ionic Equations

These equations describe the process of mixing two soluble solutions together.

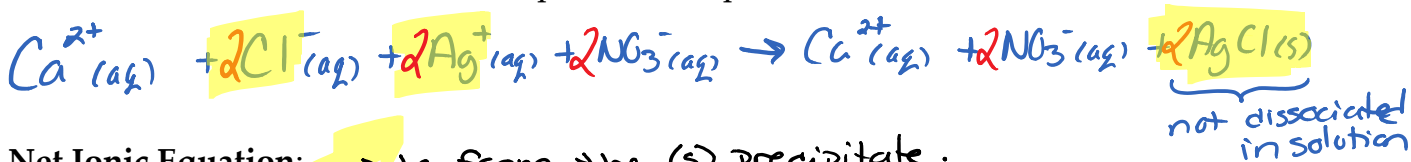
Suppose 0.2M $\text{CaCl}_{2(aq)}$ is mixed with an equal volume of 0.2M $\text{AgNO}_{3(aq)}$. Write the formula, complete ionic, and net ionic equations.

Formula Equation (double replacement equation):



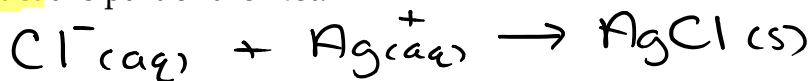
* **Complete Ionic Equation:**

The formula equation is inaccurate for the most part, as the salts dissociate into ions in solution. This is reflected in the complete ionic equation.



Net Ionic Equation: \rightarrow to form the (s) precipitate.

Only ions that react are part of the Net.



The example we did involved one low solubility ion combination. Sometimes, no low solubility ion combinations result. Sometimes, both ion combinations are low solubility.



Assignment 4: For each of the following, write formula, complete, and net ionic equations:

1. Aqueous magnesium chloride is mixed with aqueous potassium hydroxide.
2. Aqueous lithium carbonate is mixed with aqueous iron (II) sulphate.
3. Aqueous copper I sulphate is mixed with aqueous strontium bromide.
4. Hebden p. 87 #25e,i