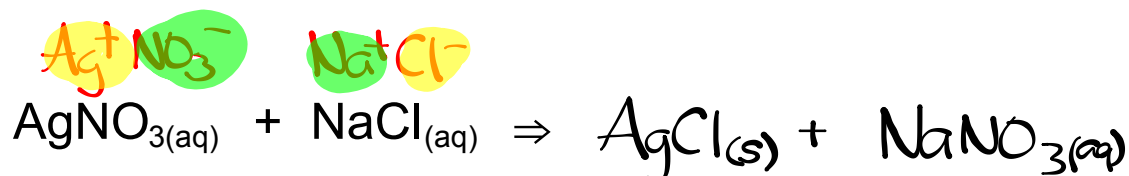
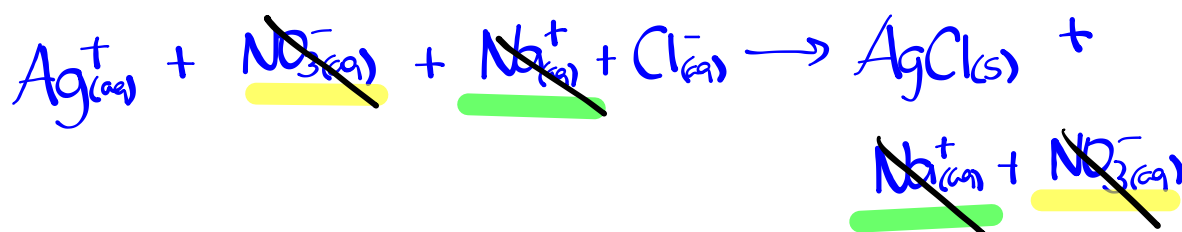


## Reactions in Aqueous Solutions



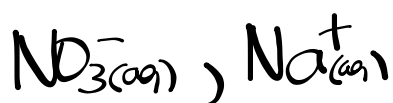
### Complete Ionic Equation

An equation that shows dissolved ionic compounds as dissociated free ions.



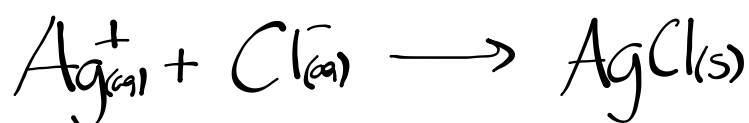
### Spectator Ion

An ion that appears on both sides of the equation and is not directly involved in the reaction.

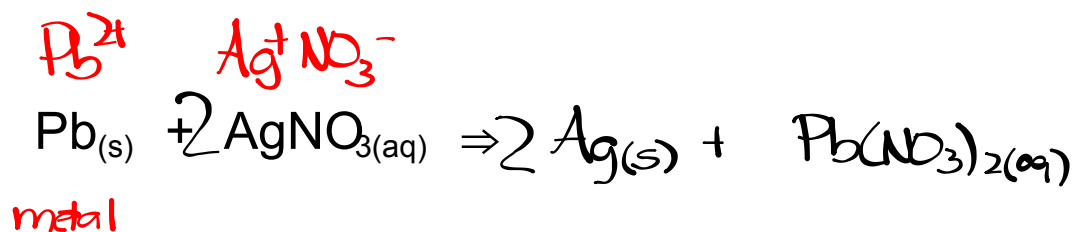


### Net Ionic Equation

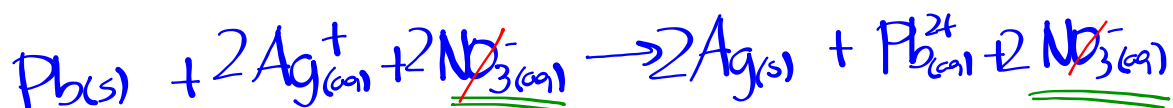
An equation for a reaction in solution that only shows the particles directly involved in the reaction.



**\*All net ionic equations must be balanced with respect to both mass and charge**



Complete Ionic:



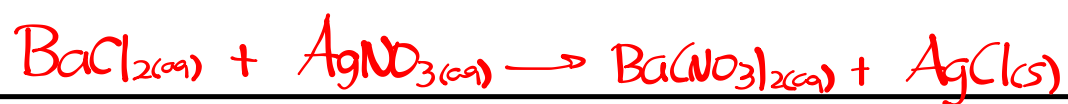
Spectator Ion(s):



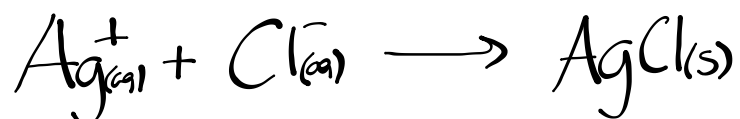
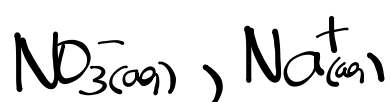
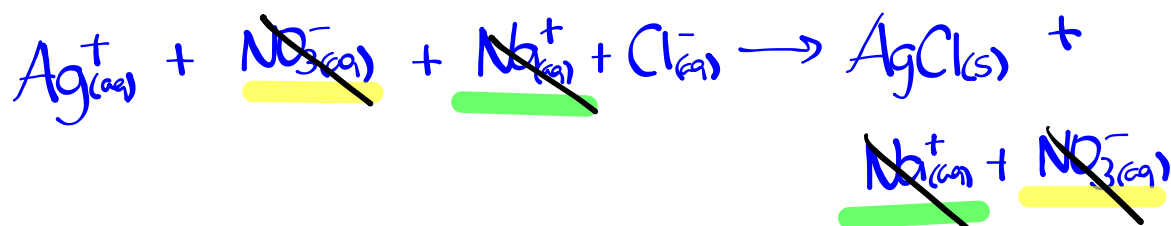
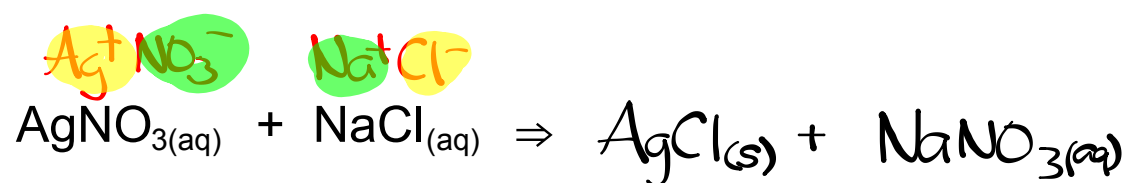
Net Ionic:



$\text{Ba}^{2+}$   $\text{Cl}^-$        $\text{Ag}^+$   $\text{NO}_3^-$   
barium chloride and silver nitrate



## Reactions in Aqueous Solutions



# Homework

# Worksheet

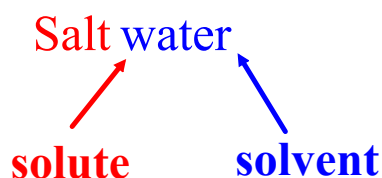
## Solutions

**Solution** - homogeneous (uniform) mixture of a solute and a solvent.

⇒ solute - substance dissolved

⇒ solvent - substance doing dissolving (liquid)

Ex.

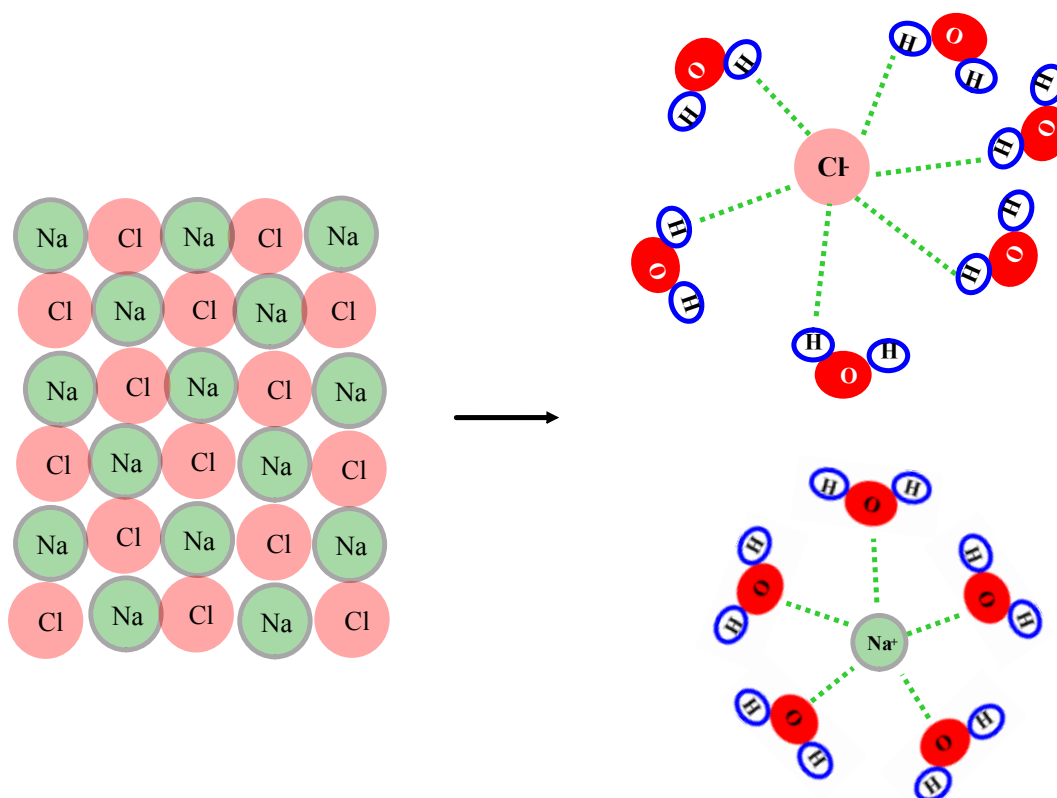


If the amount of solute that can dissolve in a solvent is large, then the solute is said to have *high solubility*.

If the amount of solute that can dissolve in a solvent is small, then the solute is said to have *low solubility*.

Solid substances formed from reactions in solutions are known as **precipitates**.

**What happens when an ionic compound dissolves??**



**This process is called solvation.**