

# Net Ionic Equations

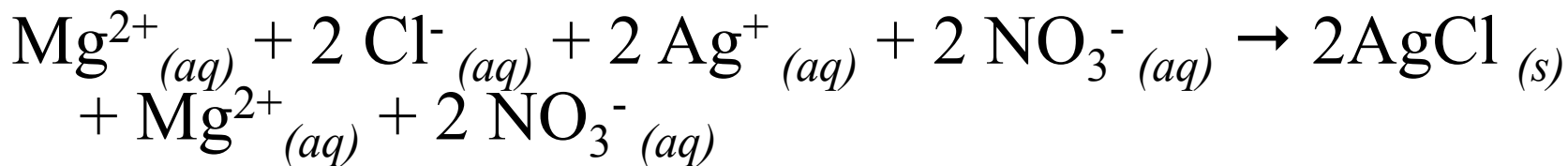
Many times a reaction occurs with only parts of the compounds changing form. The parts that don't do anything, “just sit around and watch” are called spectator ions.

To write a net ionic equation there are three steps:

1. write a “normal” balanced equation.
2. break the aqueous (*aq*) compounds into ions
3. “drop out” any ions that are the same on both sides.

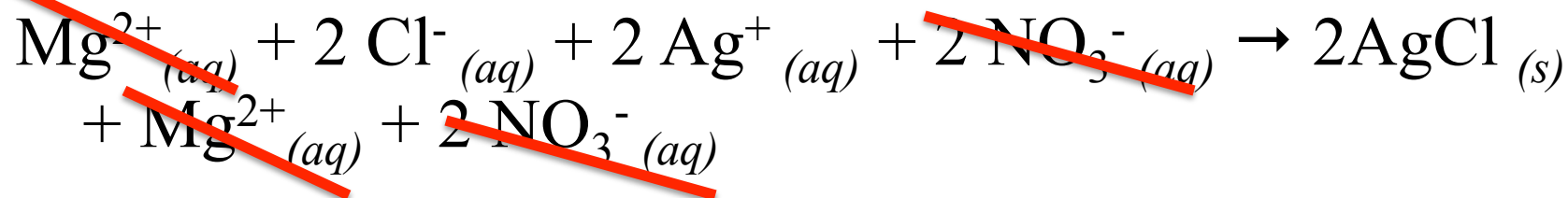
# Example

Magnesium chloride solution reacts with silver nitrate solution to form a precipitate (solid) of silver chloride and magnesium nitrate solution.

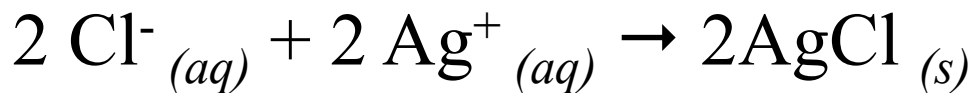


This is the total ionic equation

# Example



magnesium ion and nitrate ion are spectators



This is the net ionic equation – the ionic equation without spectator ions.