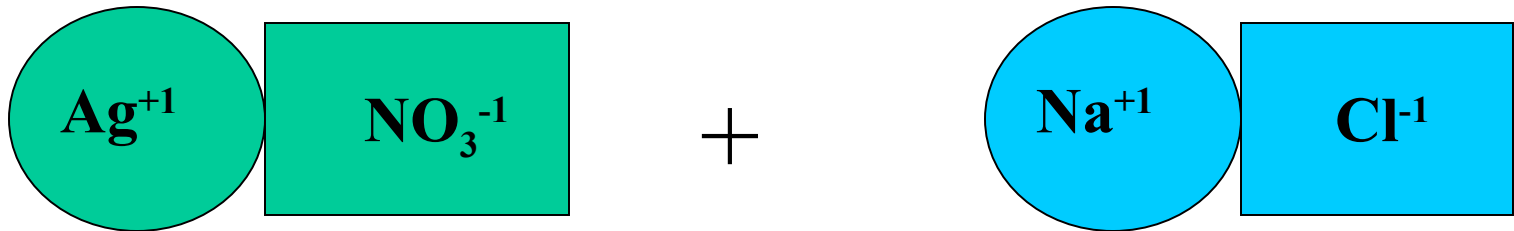
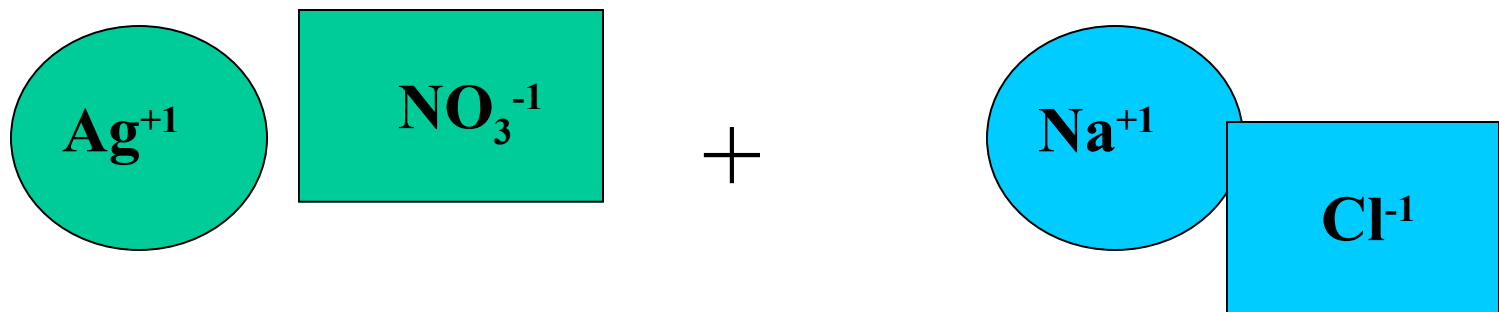


Predict the products of the
reaction of AgNO_3 and NaCl

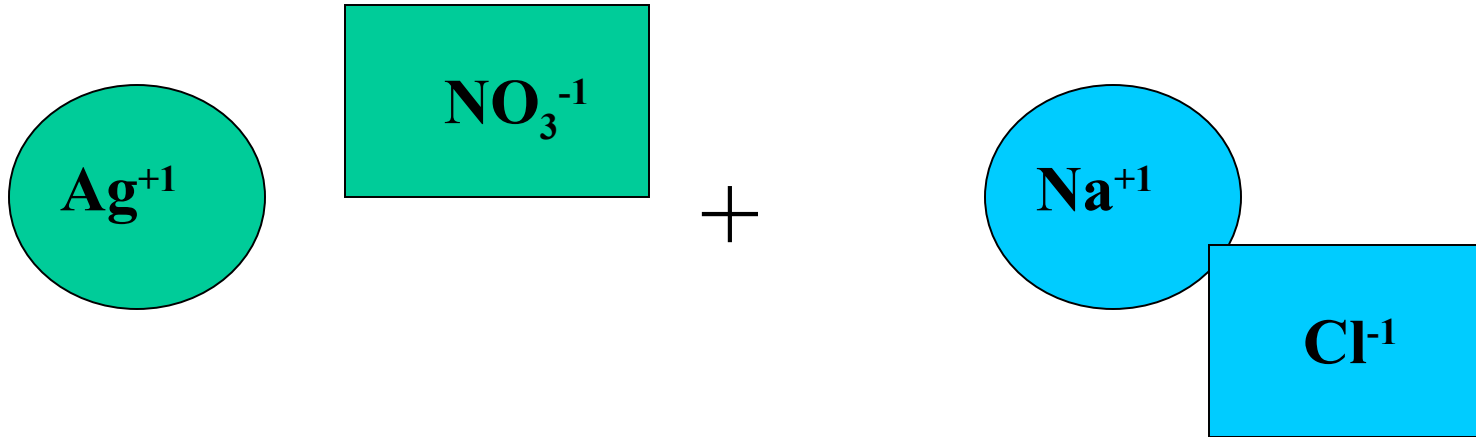
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



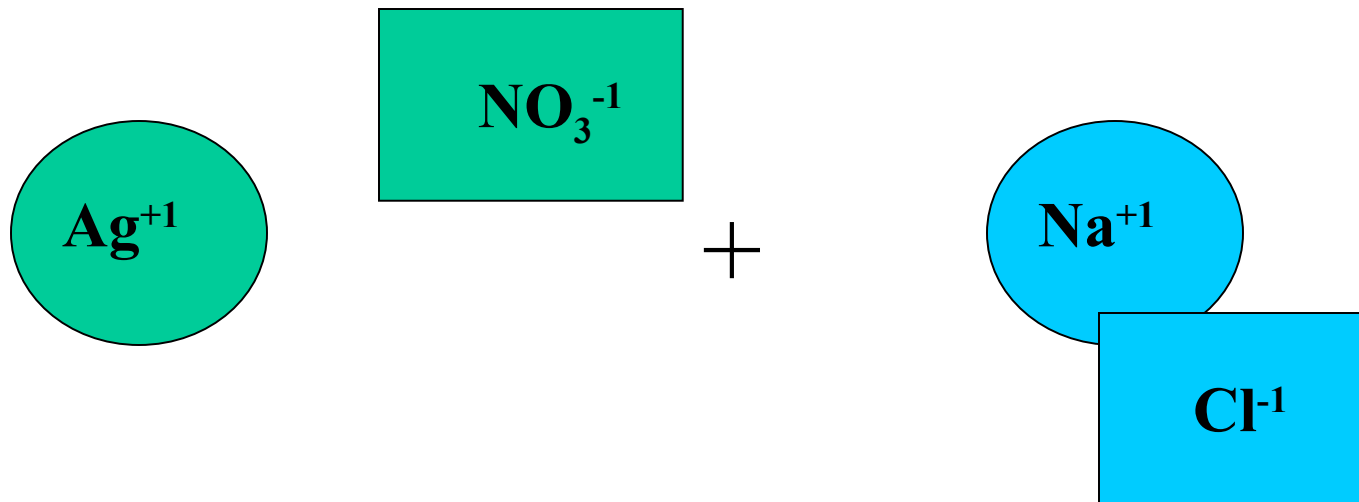
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



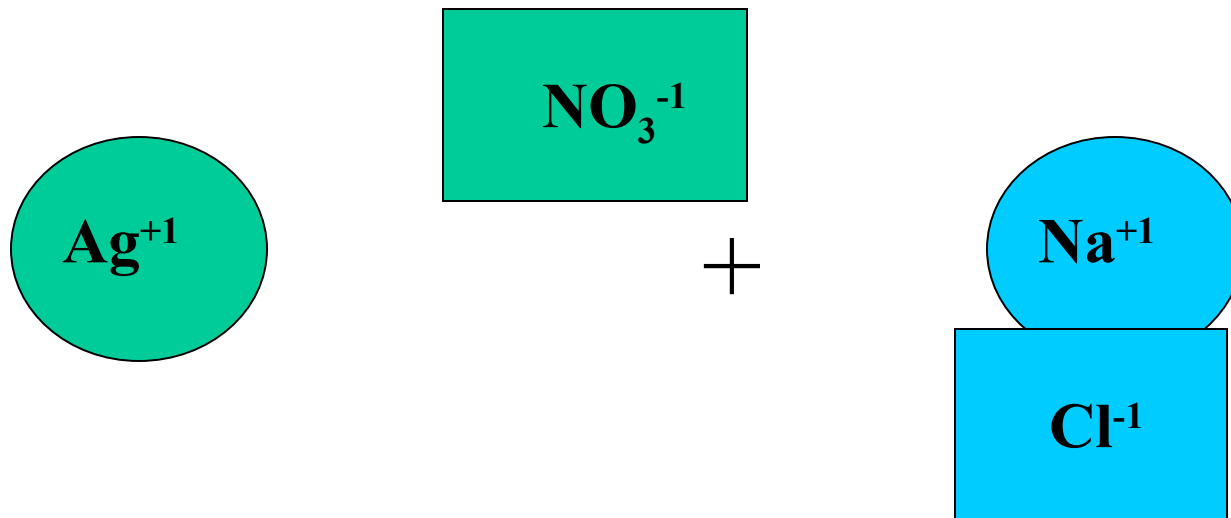
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



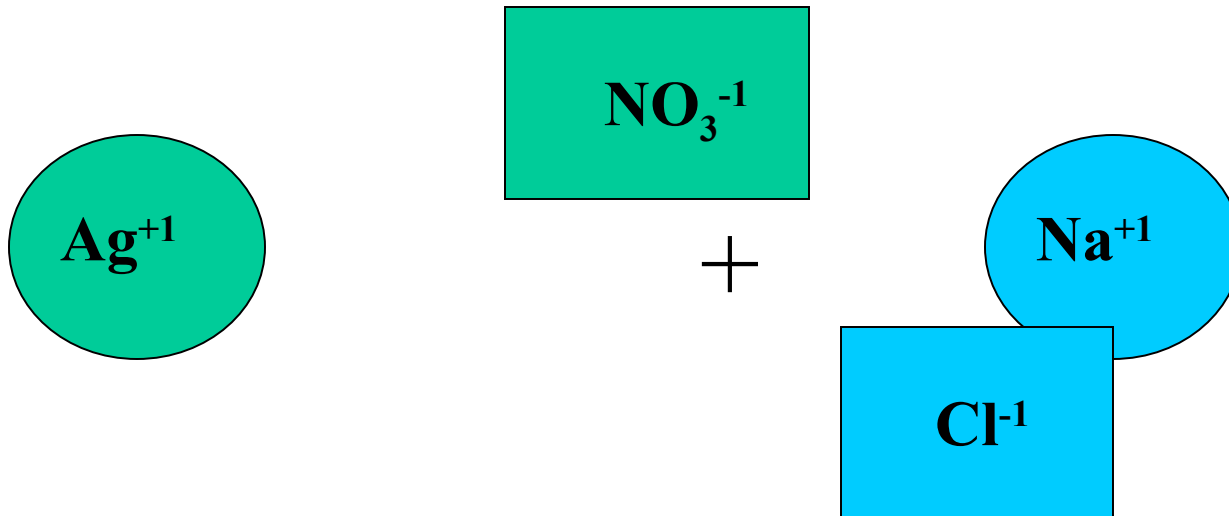
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



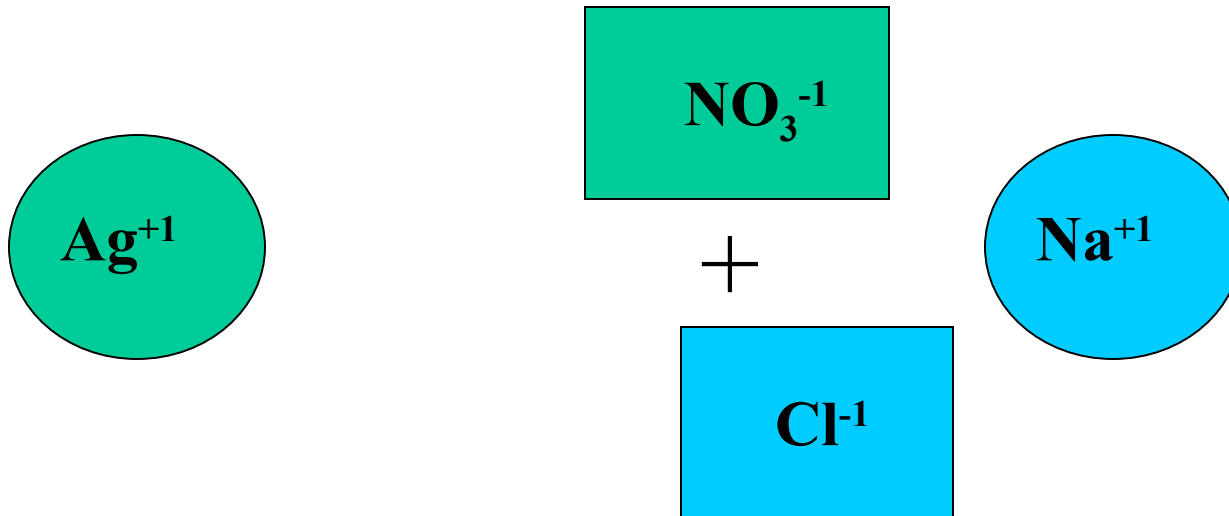
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



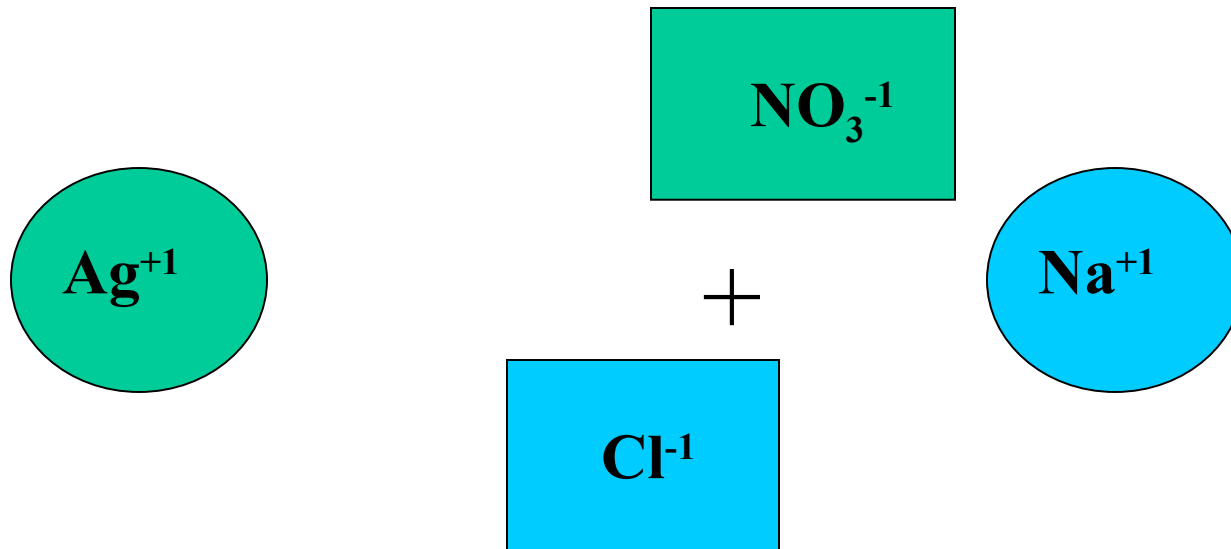
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



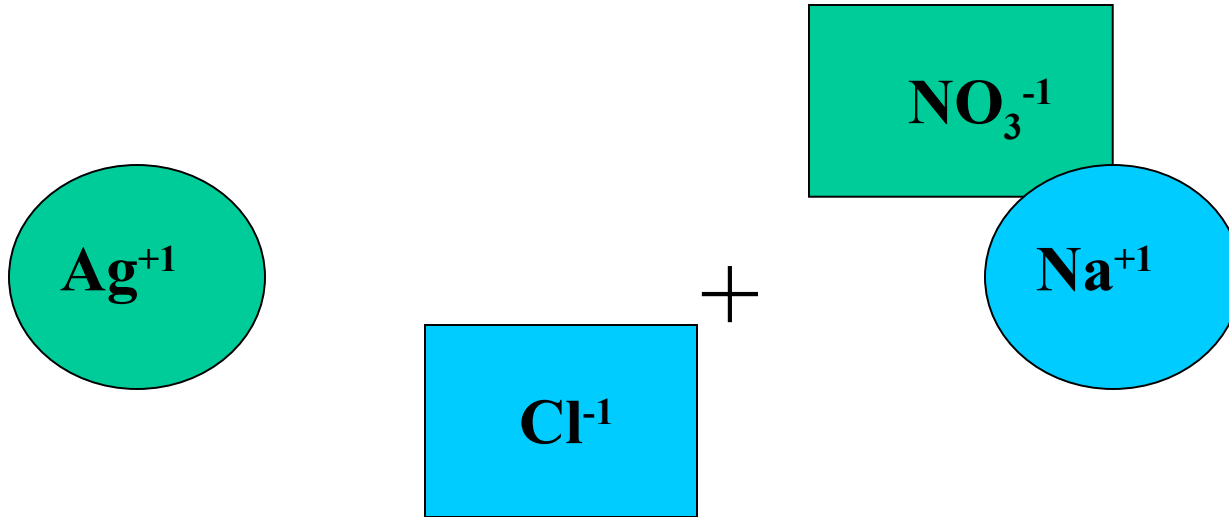
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



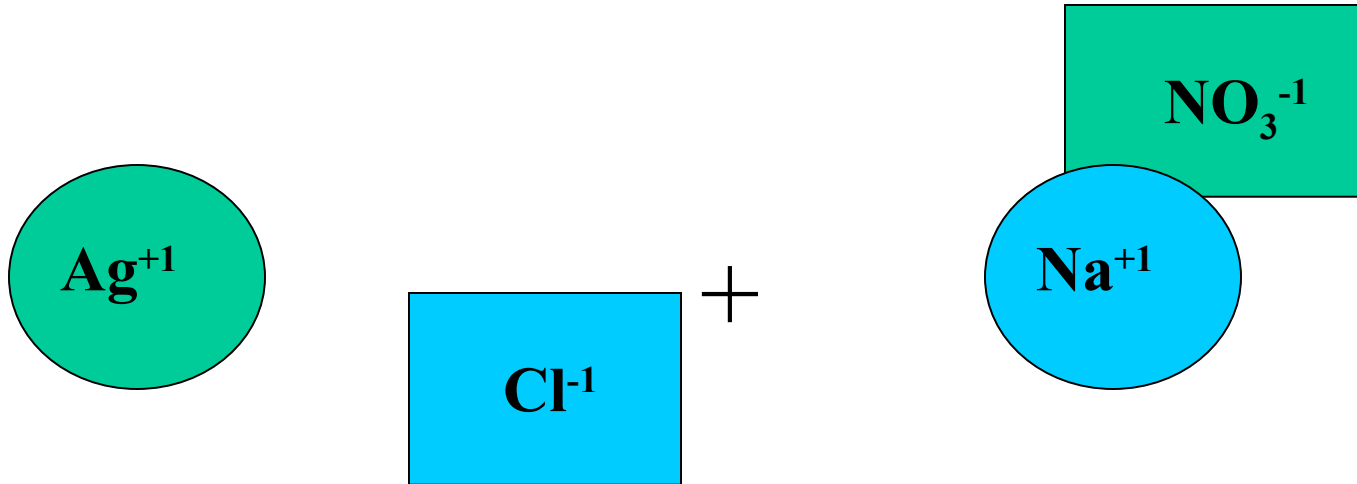
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



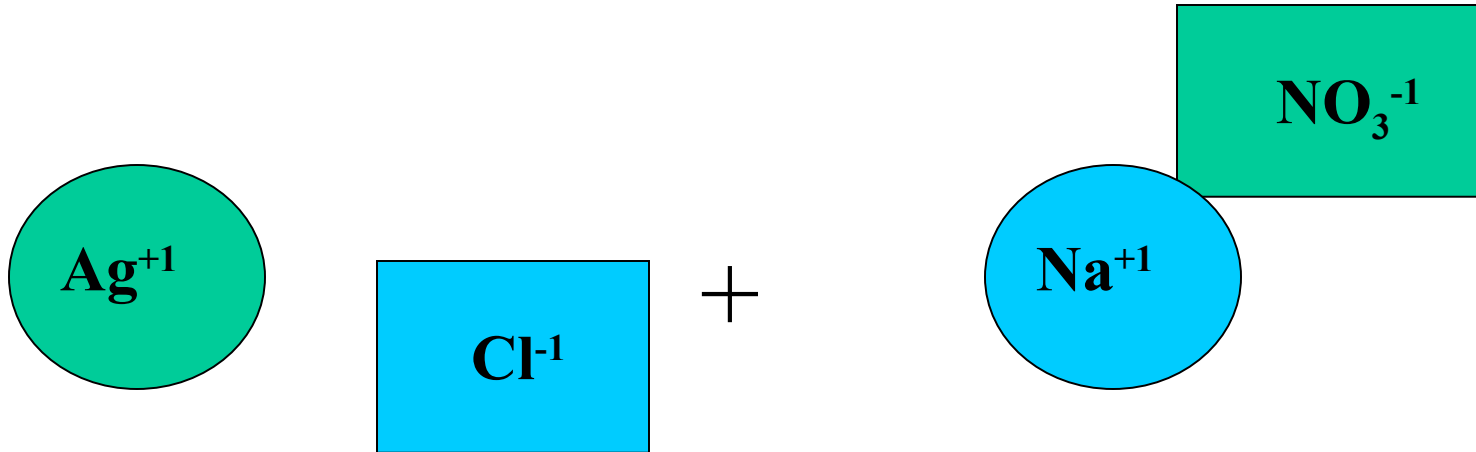
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



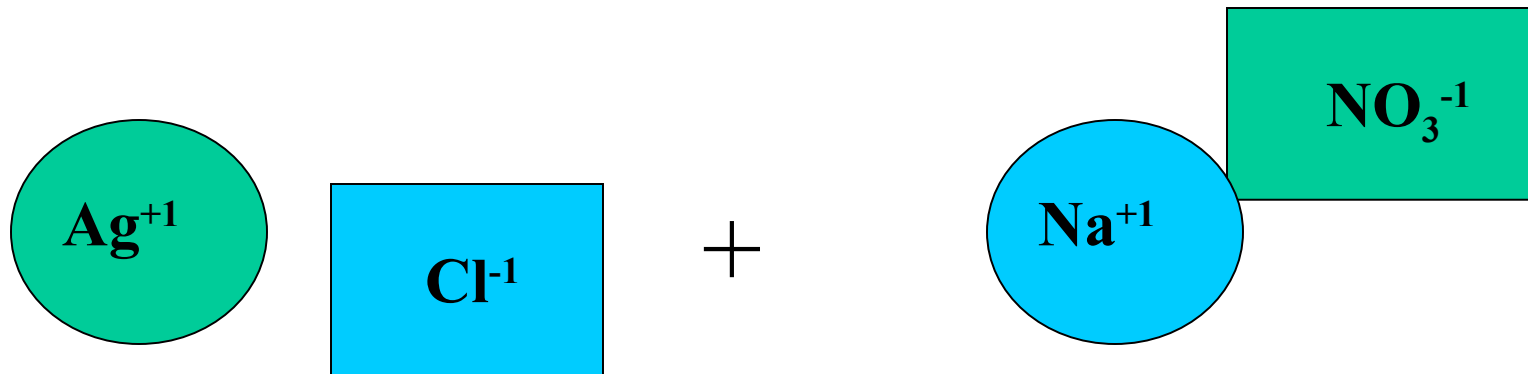
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



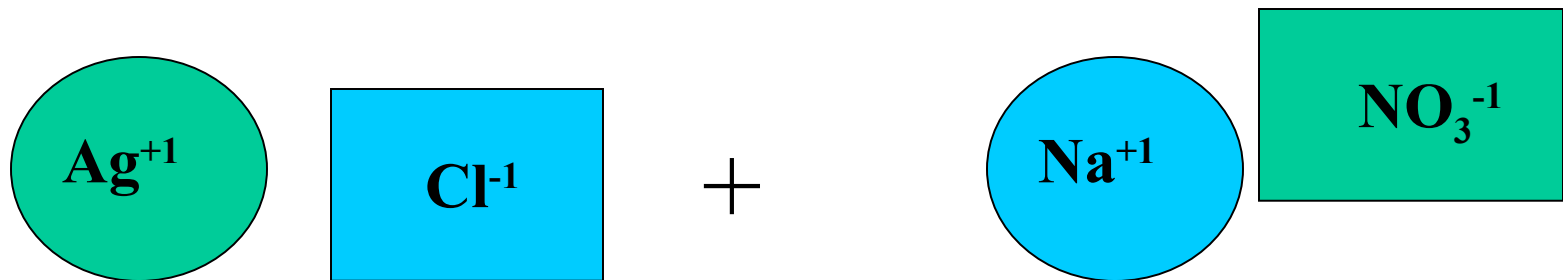
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



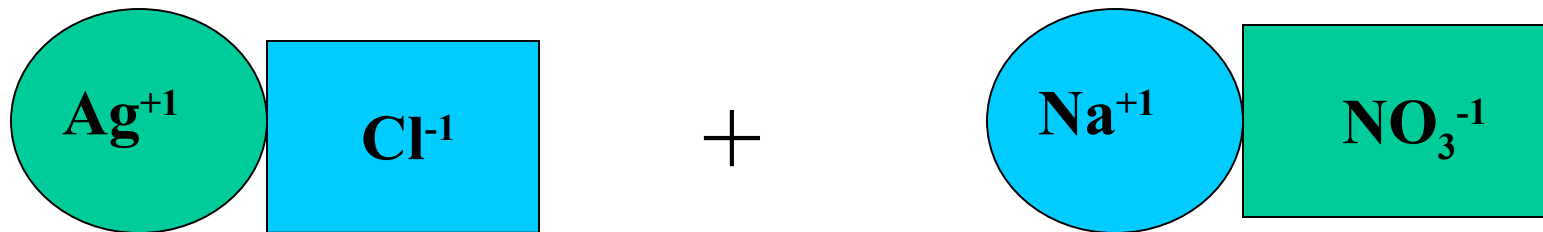
When two ionic compounds react,
the ions trade places,
to make new ionic compounds



When two ionic compounds react,
the ions trade places,
to make new ionic compounds



When two ionic compounds react,
the ions trade places,
to make new ionic compounds



Balanced chemical reaction



Predict the products of the
reaction of CaI_2 and KOH

When two ionic compounds react,
the ions trade places,
to make new ionic compounds



Cation: Ca^{+2}

Cation: K^{+1}

Anion: I^-

Anion: OH^{-1}

When two ionic compounds react,
the ions trade places,
to make new ionic compounds

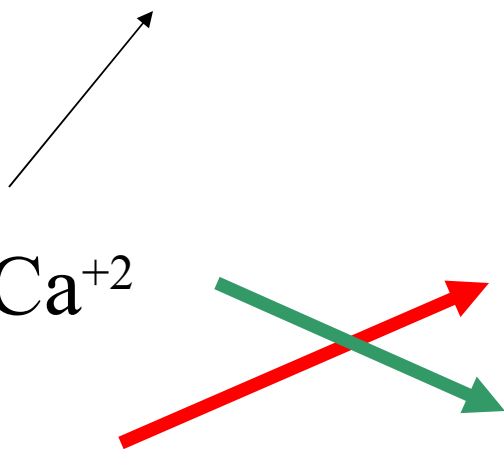


Cation: Ca^{+2}

Cation: K^{+1}

Anion: I^-

Anion: OH^{-1}



The Ca^{+2} ion hooks up with the OH^{-1} ion

The K^{+1} ion hooks up with the I^{-1} ion

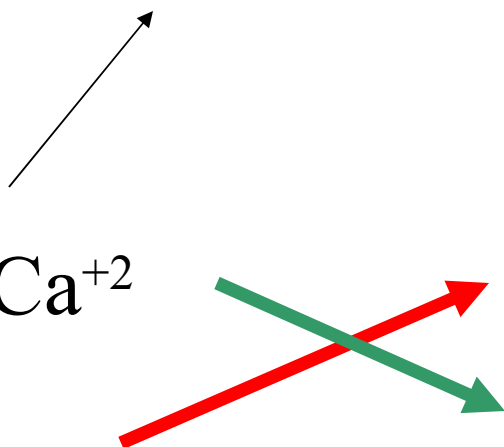
CaI_2 and KOH

Cation: Ca^{+2}

Cation: K^{+1}

Anion: I^{-1}

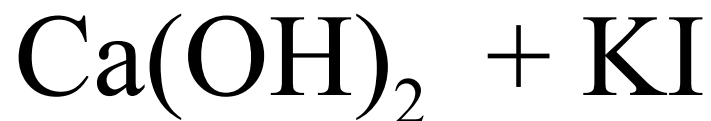
Anion: OH^{-1}



The Ca^{+2} ion hooks up with the OH^{-1} ion

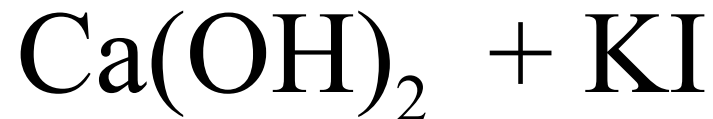
The K^{+1} ion hooks up with the I^{-1} ion

This means the products are

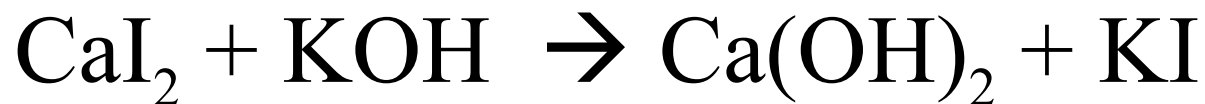


(for help see how to write neutral ionic compounds)

This means the products are

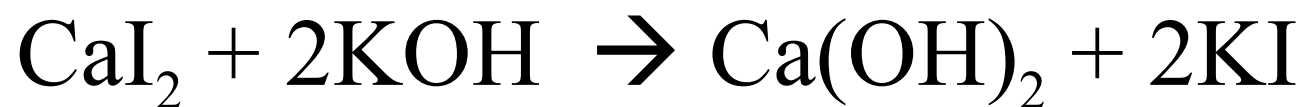


Now your reaction looks like:

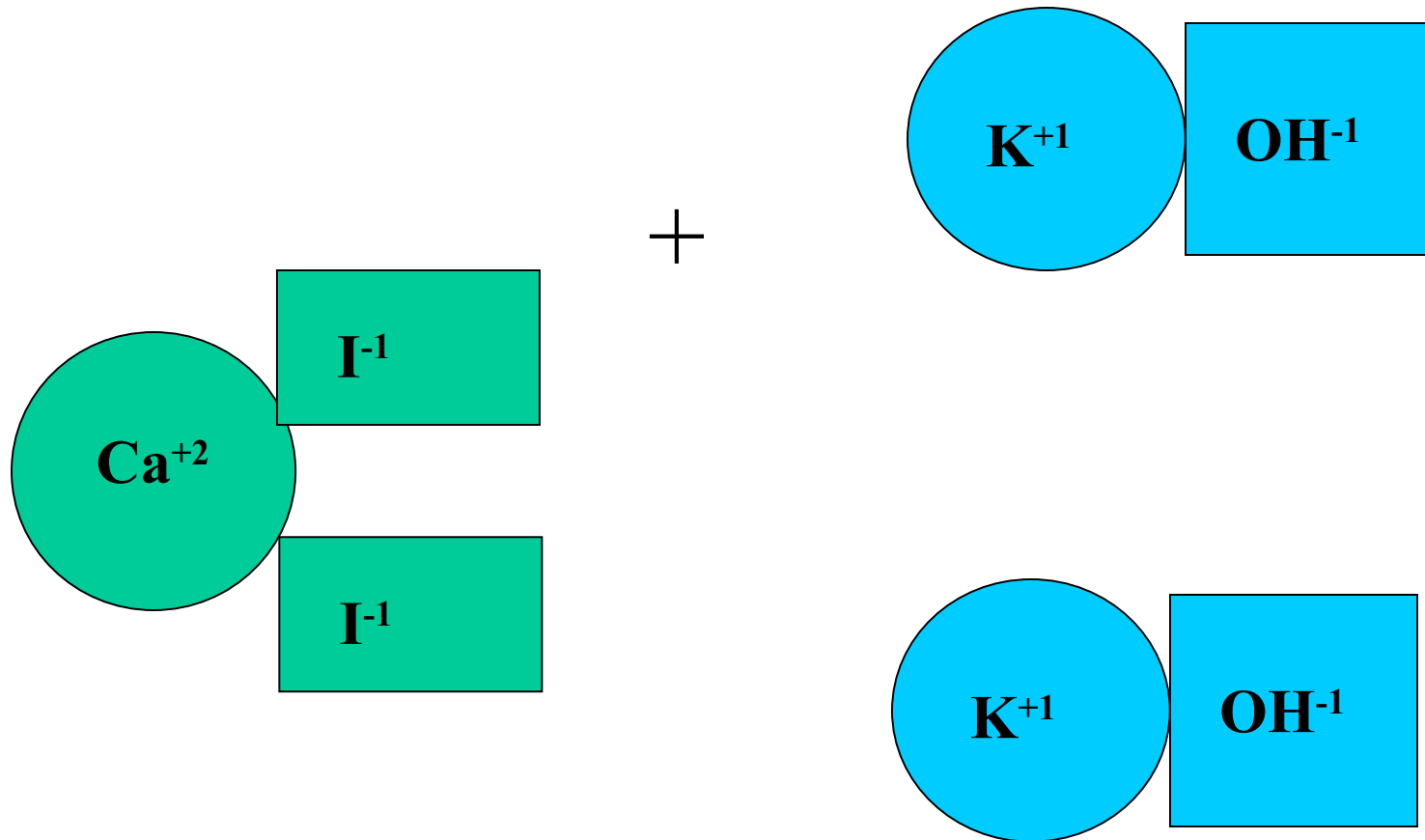


This equation is not balanced!!

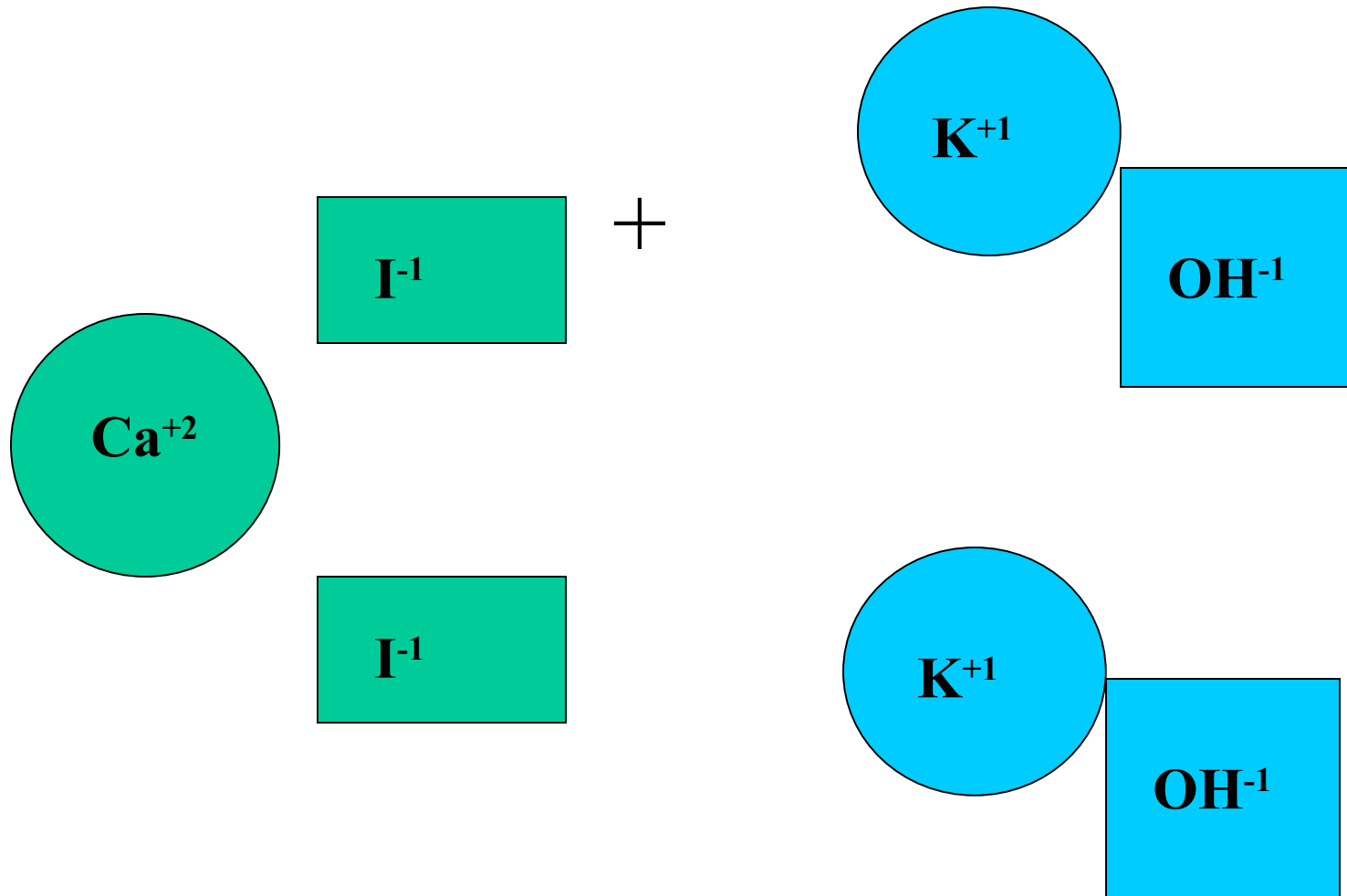
Balanced chemical reaction



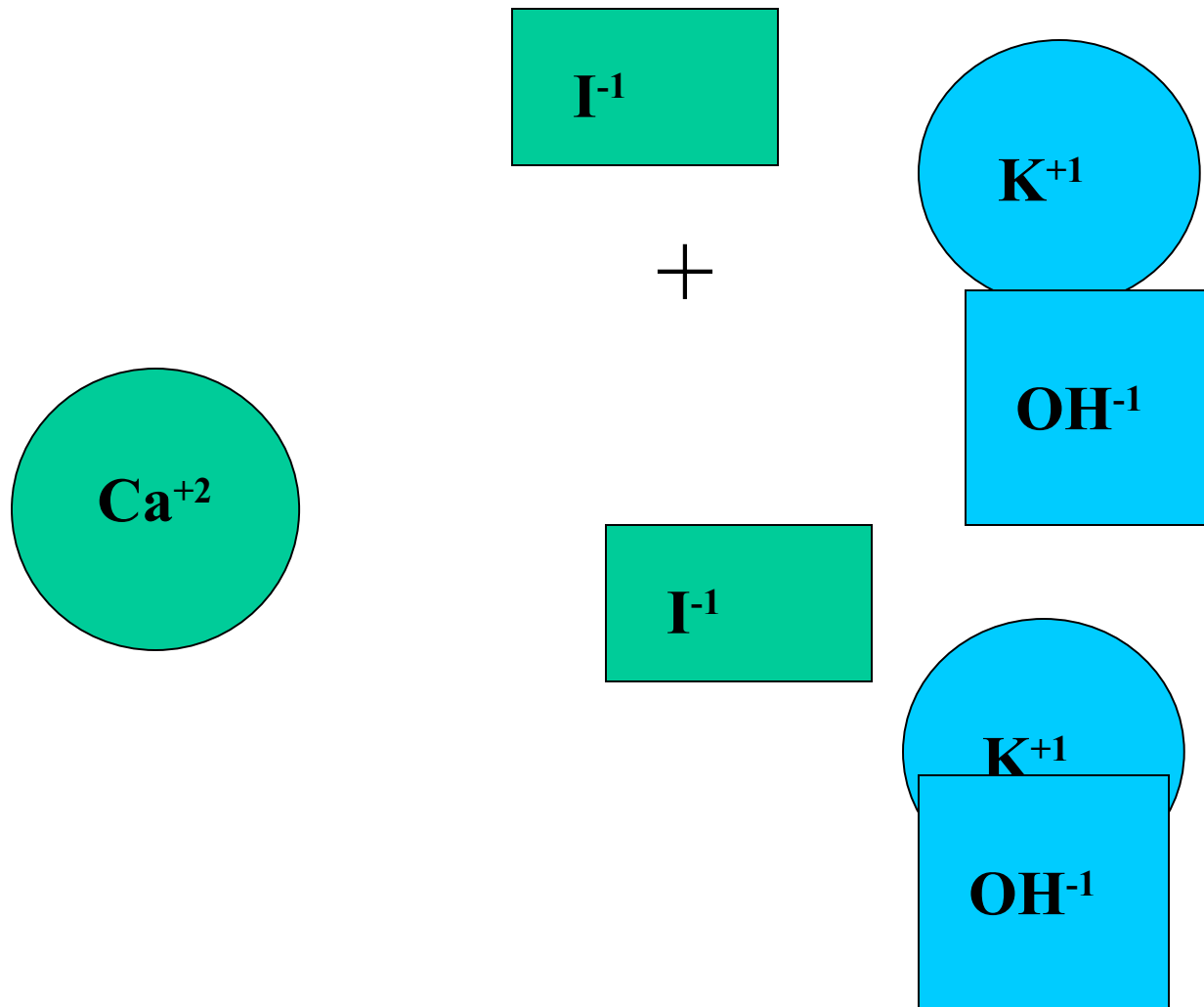
Animation



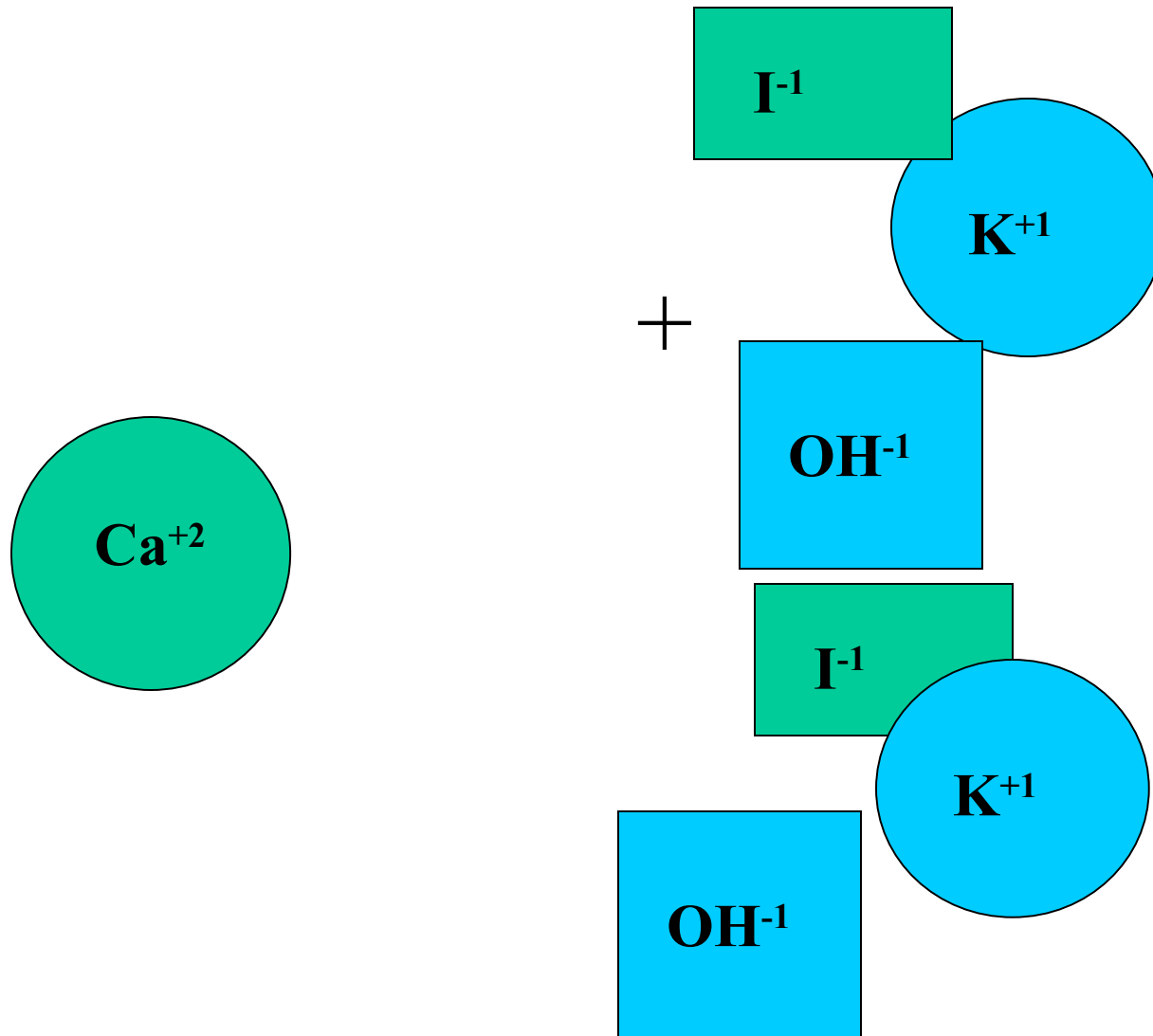
Animation



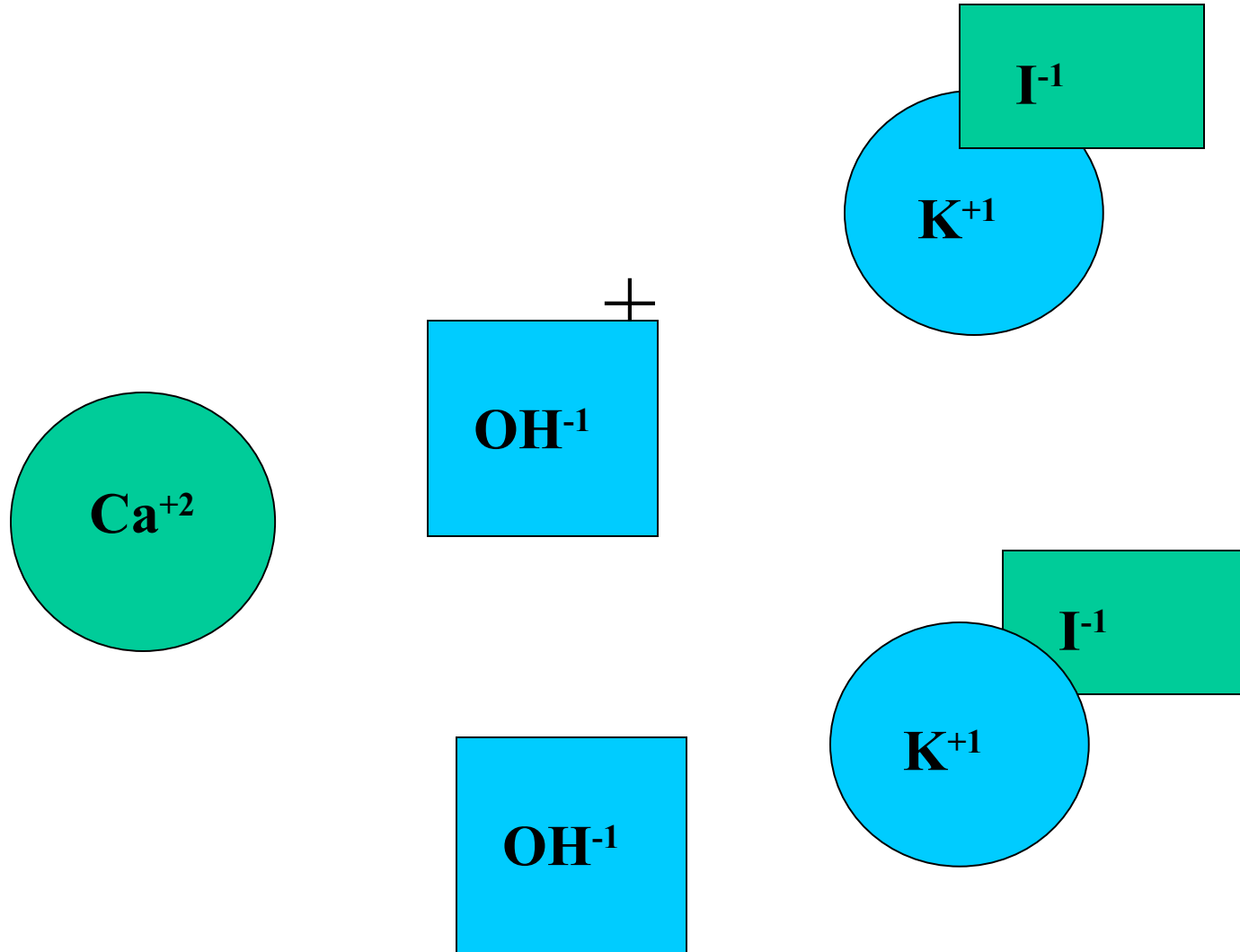
Animation



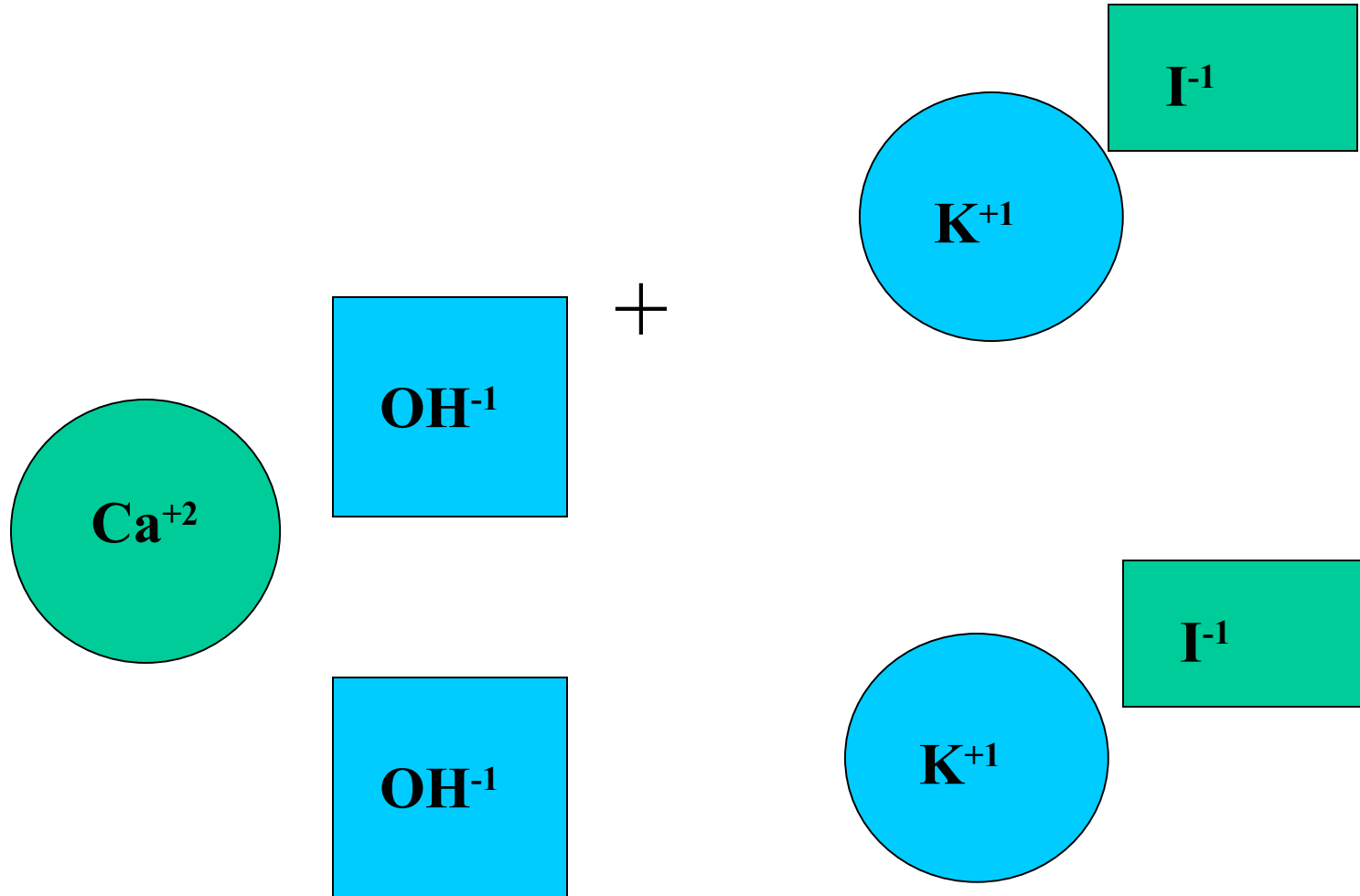
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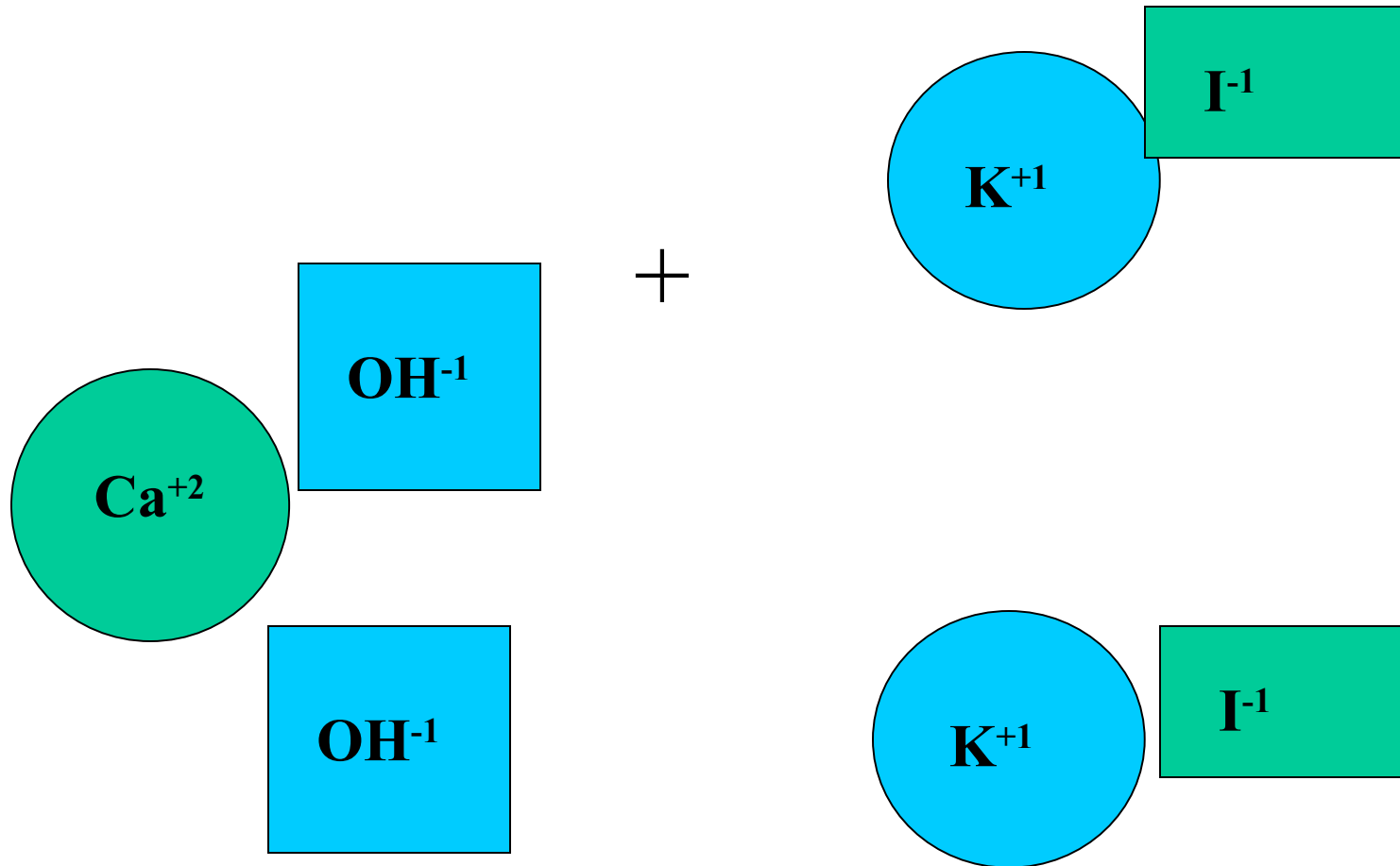
Animation



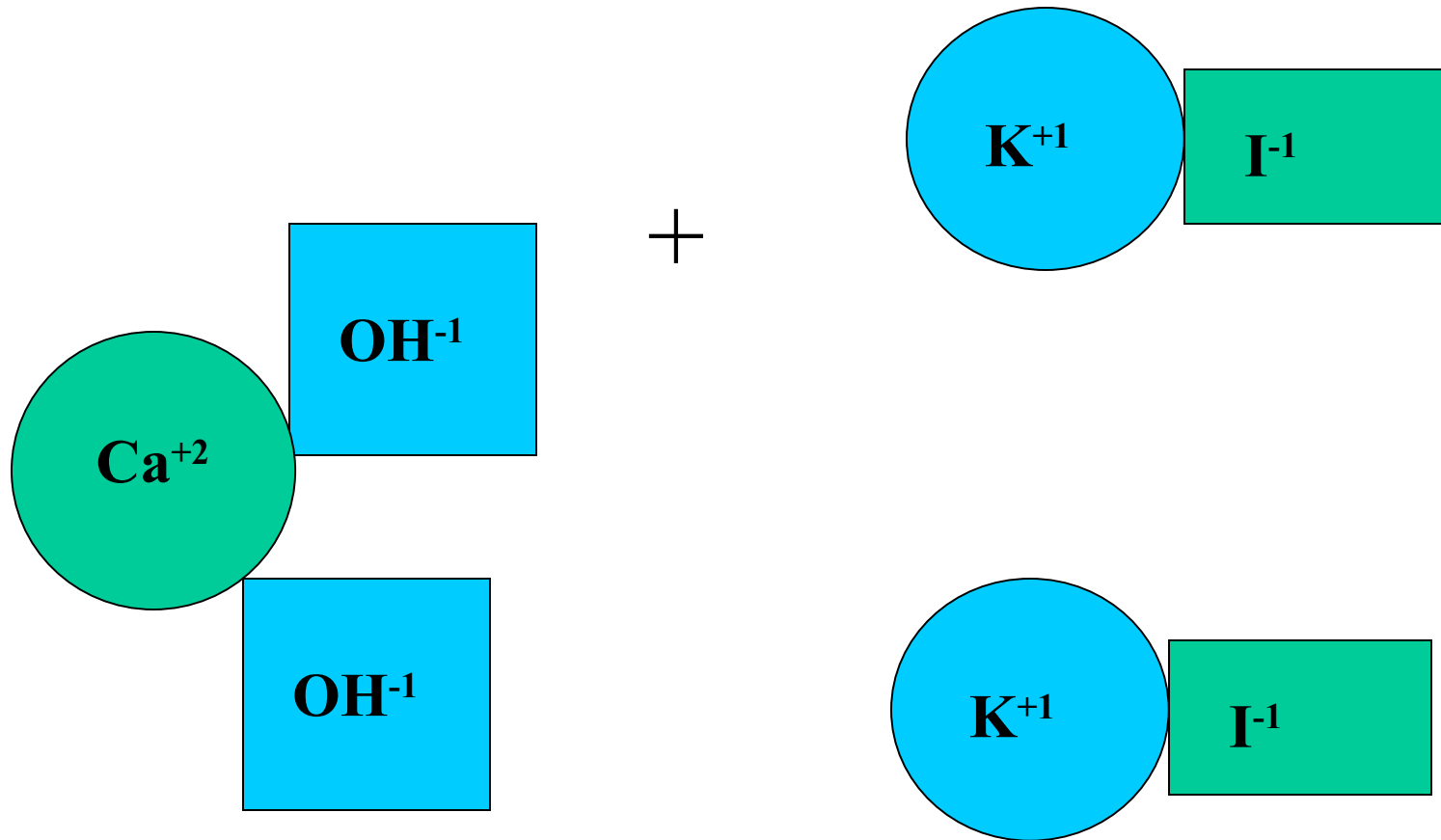
Animation



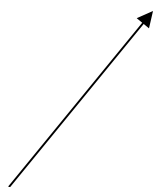
Animation



Animation

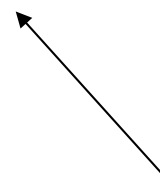


Predict the products and balance the equation
for the reaction of AlCl_3 and Na_2S



Cation: Al^{+3}

Anion: Cl^{-1}



Cation: Na^{+1}

Anion: S^{-2}

Predict the products and balance the equation
for the reaction of AlCl_3 and Na_2S



Cation: Al^{+3} Cation: Na^{+1}

Anion: Cl^{-1} Anion: S^{-2}

Al^{+3} hooks up with S^{-2}
 Na^{+1} hooks up with Cl^{-1}

This means the products must be:

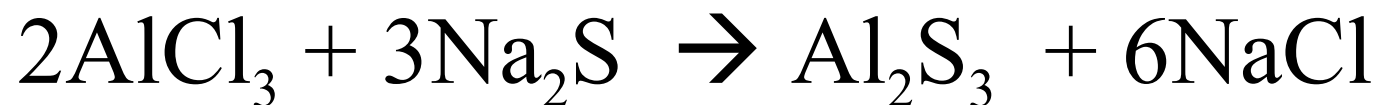


So now the reaction is:



UNBALANCED!

Balanced chemical reaction



For help on balancing, see help sheet on balancing chemical reactions