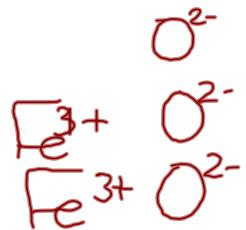


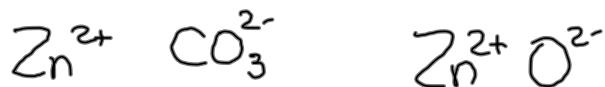
Check Homework #1-4



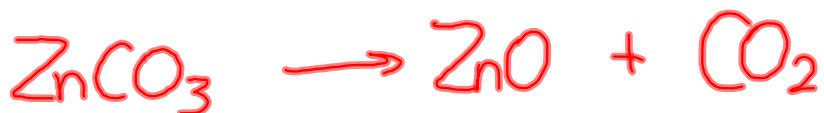
2.a) iron + oxygen \rightarrow iron(III) oxide



Synthesis



d) zinc carbonate \rightarrow zinc oxide + carbon dioxide



decomp.

Reactions so far...

Combustion

element/compound + O₂ ⇒ oxides + energy
Ex. C₃H₈ + O₂ → CO₂ + H₂O (+ C + CO)

Synthesis

two smaller particles (elements) ⇒ one molecule
Ex. Zn + O₂ → ZnO

Decomposition

one molecule ⇒ smaller particles (elements)
Ex. ZnO → Zn + O₂

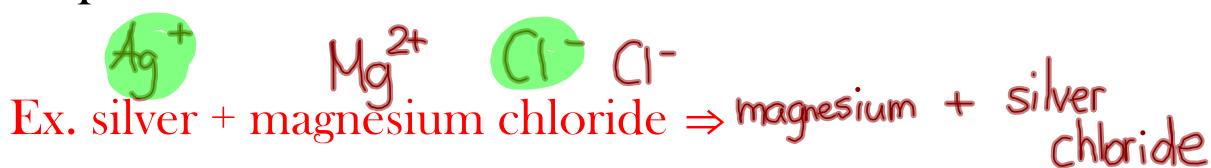
Single Replacement Reactions

(displacement)

Single replacement reactions are chemical changes that involve an element and a compound as reactants.



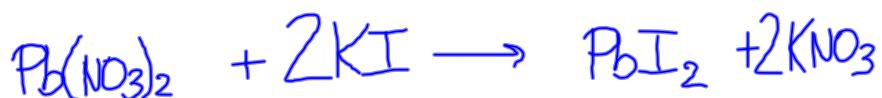
⇒ a metal displaces a metal, or a nonmetal displaces a nonmetal.



Double Replacement Reactions

Double replacement reactions are chemical changes that involve **two compounds** as reactants.

⇒ metals (or nonmetals) will 'trade'



Write a balanced chemical equation for the following word equation:

