

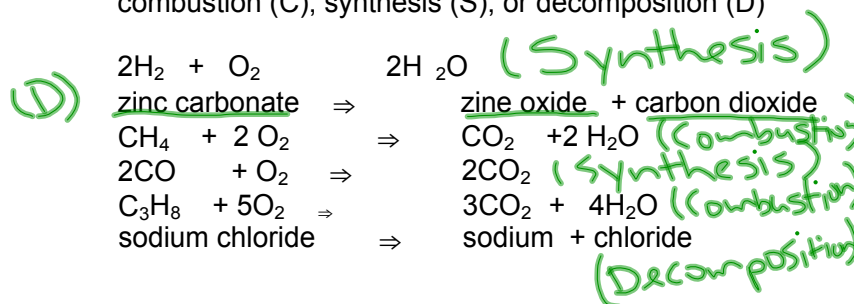
Wednesday Jan 11, 2012
 Answers pg 235 #1-4
 Single and Double Replacement Reactions

Reminder:

Test Monday Jan 16

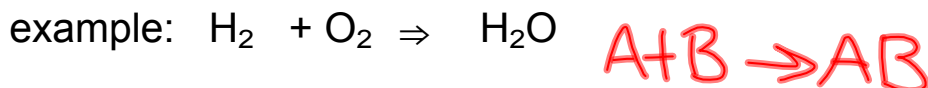
Warm-Up

1. Label each of the following reactions:
 combustion (C), synthesis (S), or decomposition (D)

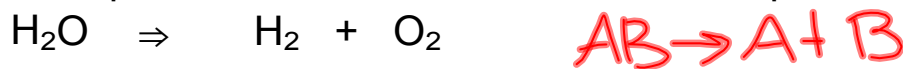


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1. synthesis means to put atoms or molecules together



decomposition means to break molecules apart



2. a) synthesis
 b) decomposition
 c) snythesis
 d) decomposition

3. a) $\text{Fe} + \text{O}_2 \longrightarrow \text{Fe}_2\text{O}_3$
 b) $\text{NaI} \longrightarrow \text{Na} + \text{I}_2$
 c) $\text{H}_2 + \text{O}_2 \longrightarrow \text{H}_2\text{O}$
 d) $\text{ZnCO}_3 \longrightarrow \text{ZnO} + \text{CO}_2$
4. a) $4\text{Fe} + 3\text{O}_2 \longrightarrow 2\text{Fe}_2\text{O}_3$
 b) $2\text{NaI} \longrightarrow 2\text{Na} + \text{I}_2$
 c) $2\text{H}_2 + \text{O}_2 \longrightarrow 2\text{H}_2\text{O}$
 d) $\text{ZnCO}_3 \longrightarrow \text{ZnO} + \text{CO}_2$

Reactions so far...

Combustion

element/compound + O₂ ⇒ oxides + energy



Synthesis

two smaller particles (elements) ⇒ one molecule



Decomposition

one molecule ⇒ smaller particles (elements)

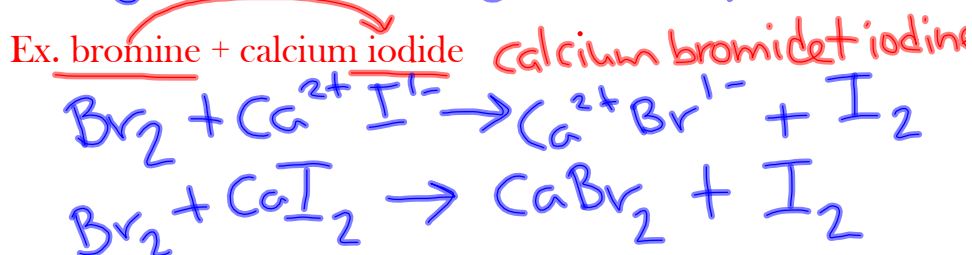
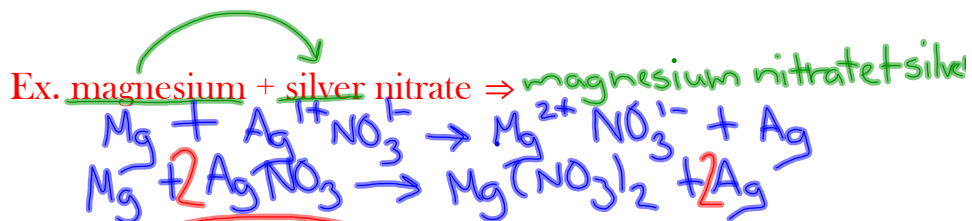


Single Replacement Reactions

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.

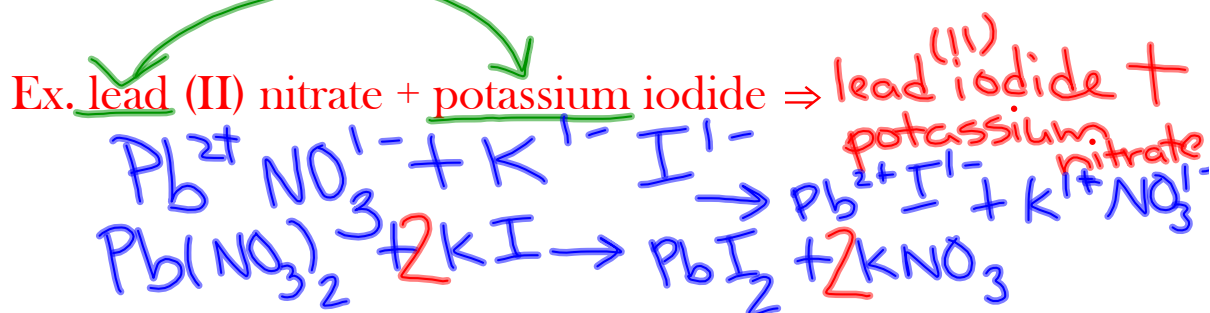


Double Replacement Reactions

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



⇒ metals (or nonmetals) will 'trade'



Homework

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