Synthesis Reactions

Decomposition Reactions

Definition

• A compound is _____ between:

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Definition

• Compound _____ to create:

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Examples

Examples

Write two additional examples of synthesis reactions.

Write two additional examples of decomposition reactions.

Single Replacement

Double Replacement

Definition

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Definition

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Examples

Predict the products. If no reaction, write NR. $Ni(NO_3)_2(aq) + Mg(s) \rightarrow$ $AlSO_4(aq) + Pt(s) \rightarrow$ $Cl_2(g) + KI(aq) \rightarrow$ $I_2(s) + NaF(aq) \rightarrow$

Examples

Predict the products.

$$AgNO_3(aq) + KCl(aq) \rightarrow$$

$$Na_2SO_4(aq) + BaCl_2(aq) \rightarrow$$

Combustion Reactions

Condensation Reactions

Definition

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Examples

Examples

Definition

Carbohydrate Formation

Combustion of Hydrocarbons

Definition

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Examples

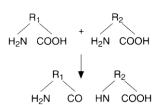
Combustion of methane

Combustion of ethane

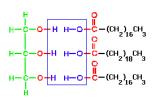
Combustion of propane

Combustion of butane

Protein Formation



<u>Lipid Formation</u>



Neutralization

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Predict the products: $HCIO + KOH \rightarrow$ $HNO_3 + NaOH \rightarrow$ $H_2SO_4 + Mg(OH)_2 \rightarrow$

Photosynthesis

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 $CO_2 + H_2O + \text{sunlight} \rightarrow C_6H_{12}O_6 + O_2$