Chemistry

April 6th, 2020

Learning Target: Be able to Predict the Product of Chemical Reactions given the Reactants

Bell Ringer: Classify the following reactions.

Bell Ringer: Answers

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Na + O_2 \rightarrow Na_2O
Combination
CaCl_2 + Na \rightarrow NaCl + Ca
Single Displacement
Al_2S_3 \rightarrow Al + S
Decomposition
CaCl<sub>2</sub> + NaOH \rightarrow Ca(OH)<sub>2</sub> + NaCl
Double Displacement
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Lesson

Watch these videos:

Predicting Products of Single Displacement Reactions

Predicting Products of Double Displacement Reactions

These videos focus on displacement reactions, which students typically find the most difficult. Previous lessons included information about combination and decomposition reactions.

As a reminder, in <u>combination</u> reaction, <u>combine</u> the elements and cross charges. In decomposition reaction, separate the elements and check if they are diatomic

Practice

Туре:	$Ga_2O_3 \longrightarrow$
Туре:	$C_2H_6 + O_2 \longrightarrow$
Туре:	$HNO_3 + Ca(OH)_2 \longrightarrow$
Туре:	Na + N ₂
Туре:	$Rb + CaF_2 \longrightarrow$

Answers

Type: Decomposition Ga_2O_3 \longrightarrow $Ga + O_2$ Type: Combustion $C_2H_6 + O_2$ \longrightarrow $CO_2 + H_2O$ Type: Double Displacment $HNO_3 + Ca(OH)_2 \longrightarrow H_2O + Ca(NO_3)_2$ Type: Combination $Na + N_2 \longrightarrow Na_3N$ Type: Single Displacement $Rb + SrF_2 \longrightarrow RbF + Sr$

Additional Practice

Practice Problems

Predicting Products Simulation