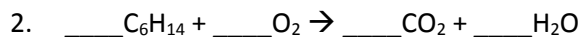


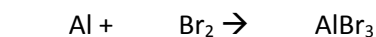
Types of Reactions: Synthesis, Decomposition and Combustion

Chemical Equations: Balance the following chemical equations.

1. silver bromide reacts with galium phosphate yielding silver phosphate and galium bromide



In the reaction below, label the reactants and products, circle the subscripts and box the coefficients.



General Formula:

Synthesis:

Decomposition:

Combustion:

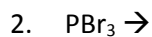
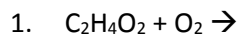
Check for Understanding: Determine the type of reaction for the equations below.

1. $2 \text{Al} + 3 \text{S} \rightarrow \text{Al}_2\text{S}_3$ _____
2. $\text{Ni}(\text{OH})_2 \rightarrow \text{NiO} + \text{H}_2\text{O}$ _____
3. $\text{H}_2\text{O} + \text{N}_2\text{O}_5 \rightarrow 2 \text{HNO}_3$ _____
4. $2 \text{NaHCO}_3 \rightarrow \text{Na}_2\text{CO}_3 + \text{CO}_2 + \text{H}_2\text{O}$ _____
5. $4 \text{NO}_2 + \text{O}_2 \rightarrow 2 \text{N}_2\text{O}_5$ _____
6. $2 \text{C}_2\text{H}_6 + 7 \text{O}_2 \rightarrow 4 \text{CO}_2 + 6 \text{H}_2\text{O}$ _____
7. $2 \text{Al}_2\text{O}_3 \rightarrow 4 \text{Al} + 3 \text{O}_2$ _____

Predicting Products:

- _____
- _____

Practice:



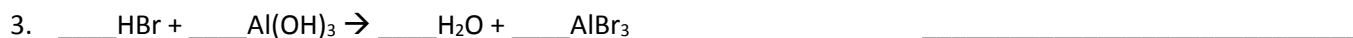
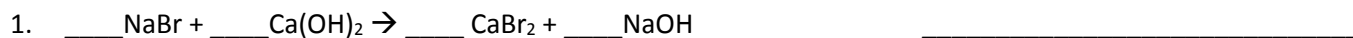
Types of Reactions: Single Replacement, Double Replacement

General Formula:

Single Replacement (Single Displacement):

Double Replacement (Double Displacement):

Check for Understanding: Determine the type of reaction for the equations below.



Prediction Products: Single Replacement

- _____
- _____
- _____

Predicting Products: Double Replacement

- _____
- _____

Check for Understanding: Predict the products and balance the equations below.

