

Unit 09: Chemical Reactions

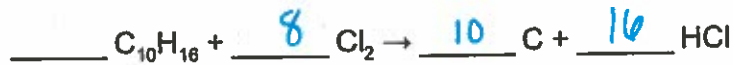
Unit Review

** = Don't worry about questions with (*) by them.*

Learning Targets

- Describe the five general types of reactions.
- Describe how to write a skeleton equation.
- Describe the steps of writing and balancing a chemical equation.

1. Balance the following equations:



P
 $C = 10$
 $H = 16$
 $Cl = 2 \times 8$

R
 $C = \times 10$
 $H = \times 16$
 $Cl = \times 16$



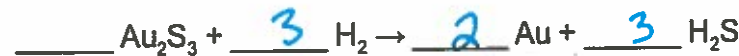
P
 $H = 2 \times 2$
 $O = 2 \times 2$

R
 $H = 2 \times 2$
 $O = 2 \times 2$



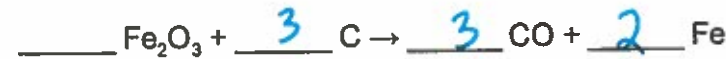
$H = 2$
 $Cl = 2$
 $K = 2$
 $C = 1$
 $O = 3$

$H = 2$
 $Cl = \times 2$
 $K = \times 2$
 $C = 1$
 $O = 3$



$Au = 2$
 $S = 3$
 $H = 2 \times 3$

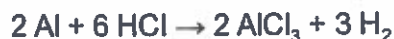
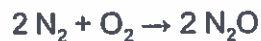
$Au = \times 2$
 $S = \times 3$
 $H = 2 \times 3$



$Fe = 2$
 $O = 3$
 $C = \times 3$

$Fe = \times 2$
 $O = \times 3$
 $C = \times 3$

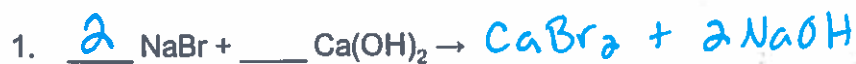
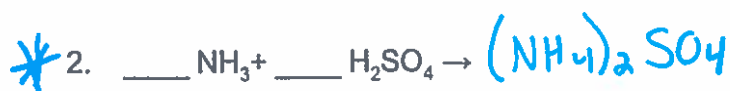
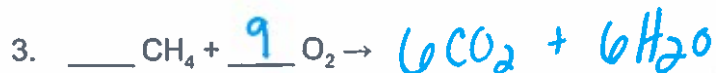
2. Identify the types of each of the reactions below:

SynthesisSingle ReplacementSynthesisDouble Replacement

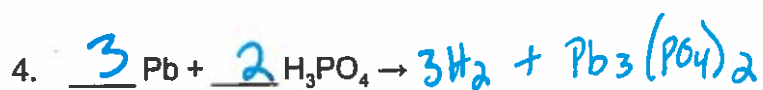
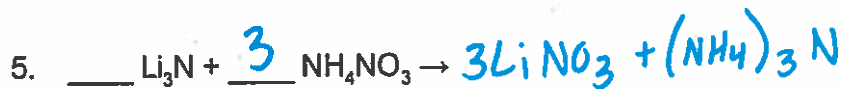
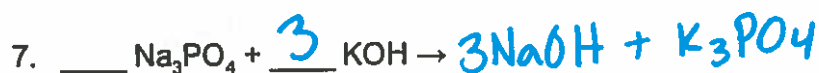
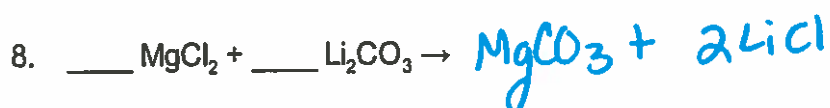
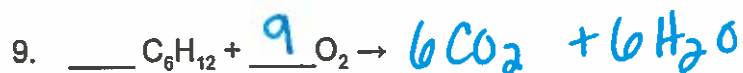
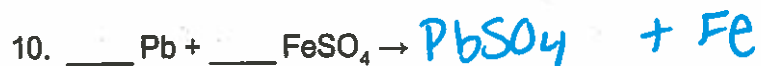
3. Predict the products of the reactions below. Make sure that your formulas are correct!!!



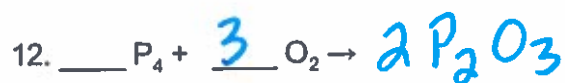
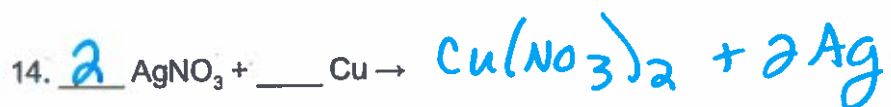
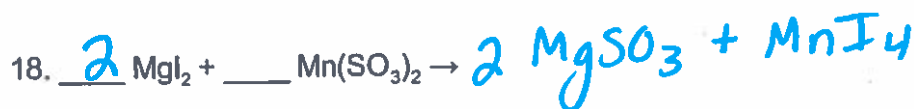
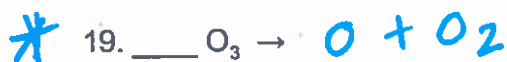
Predict and balance the reactions below and indicate which type of chemical reaction (synthesis, decomposition, single-displacement, double-displacement or combustion) is being represented:

Reaction Type: Double ReplacementReaction Type: SynthesisReaction Type: Combustion

Name: _____

Reaction Type: Single
ReplacementReaction Type: Double
ReplacementReaction Type: Double
ReplacementReaction Type: Double
ReplacementReaction Type: Double
ReplacementReaction Type: CombustionReaction Type: Single
ReplacementReaction Type: Decomposition

Name: _____

Reaction Type: SynthesisReaction Type: Double ReplacementReaction Type: Single ReplacementReaction Type: CombustionReaction Type: SynthesisReaction Type: Single ReplacementReaction Type: Double ReplacementReaction Type: Decomposition