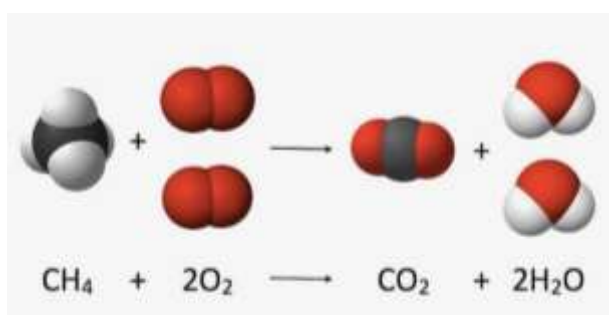


Section 5.2: Combustion Reactions

Combustion Reaction:

GENERAL FORM OF A COMBUSTION REACTION

hydrocarbon + oxygen \longrightarrow carbon dioxide + water



HOW TO BALANCE A COMBUSTION REACTION

Step 1: Balance carbon atoms first by adding coefficients

Step 2: Balance hydrogen atoms second – add the appropriate coefficient

Step 3: Balance oxygen atoms last (If the number of oxygen atoms is an odd number, make it a fraction with a denominator of 2)

Step 4: If the oxygen atoms were balanced using a fraction, multiply the entire reaction by a coefficient of 2 to eliminate the fraction.

Example:

Predict the products and balance the following combustion reaction

