

# Balancing Chemical Equations Worksheet

**Read the following statements and write "True" or "False" in the space provided.**

1. The law of conservation of mass states that the total mass of reactants must be equal to the total mass of products. \_\_\_\_\_
2. When balancing a chemical equation, it is acceptable to change the subscripts in a chemical formula. \_\_\_\_\_
3. A combustion reaction always involves a hydrocarbon reacting with oxygen to produce carbon dioxide and water. \_\_\_\_\_
4. In a balanced equation, the number of atoms of each element must be the same on both sides.  
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5. Coefficients in a chemical equation indicate the number of atoms in a compound. \_\_\_\_\_
6. A synthesis reaction occurs when two or more reactants combine to form a single product.  
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