

Name: _____ Period: _____ Date: _____

Chemical Equations Assignment - Student Edition

I. Writing Word equations

Write word equations for the following reactions.

1. Magnesium and hydrochloric acid react to form magnesium chloride and hydrogen.
2. Methane reacts with oxygen to form carbon dioxide and water.
3. Zinc bromide is formed when zinc is placed in bromine gas.
4. Lithium fluoride is produced from lithium metal and fluorine gas.

II. Writing Chemical equations.

Write chemical formula equations for the following reactions. Check that each equation is balanced.

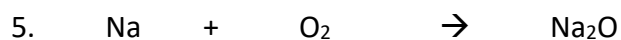
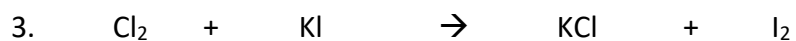
1. Iron reacts with oxygen gas to form iron oxide (FeO).
2. Sodium metal reacts with chlorine gas to form sodium chloride (NaCl).
3. Copper reacts with sulfuric acid (H_2SO_4) to form copper sulfate (CuSO_4) and hydrogen.
4. Cobalt (Co) reacts with hydrochloric acid to form cobalt chloride (CoCl_2) and hydrogen gas.
5. Calcium hydroxide ($\text{Ca}(\text{OH})_2$) is formed when calcium oxide (CaO) reacts with water.

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III. Balancing Chemical equations

Balance each equation. Remember you cannot add subscripts or place coefficients in the middle of a chemical formula.



Challenge Question:

