

Predicting Products

Name: _____

Part 1: Identify each of the following reactions by writing the name of the reaction on the line to the left of the chemical reaction. Complete the reaction on the line to the right. Be sure to balance the equation.

<i>Reaction Type</i>	<i>Reaction</i>	
1) _____	_____ C ₆ H ₆ (l) + _____ O ₂ (g)	--> _____
2) _____	_____ Zn (s) + _____ H ₃ PO ₄ (l)	--> _____
3) _____	_____ Fe (s) + _____ Cl ₂ (g)	--> _____
4) _____	_____ Mg ₃ N ₂ (s)	--> _____
5) _____	_____ Br ₂ (aq) + _____ FeI ₃ (aq)	--> _____
6) _____	_____ BaCl ₂ (aq) + _____ H ₃ PO ₄ (aq)	--> _____
7) _____	_____ C ₃ H ₈ (g) + _____ O ₂ (g)	--> _____
8) _____	_____ O ₂ (g) + _____ Ca(s)	--> _____
9) _____	_____ LiCl (s)	--> _____
10) _____	_____ Pb(NO ₃) ₂ (aq) + _____ NaCl(aq)	--> _____
11) _____	_____ C ₄ H ₈ (l) + _____ O ₂ (g)	--> _____
12) _____	_____ Ni (s) + _____ FeSO ₄ (aq)	--> _____

Part 2: Write a balanced formula equation for the following word reactions.

13) Write a balanced equation for the synthesis of potassium bromide.

14) Write a balanced chemical equation for the decomposition of hydrogen peroxide. One of the products of this reaction is water.

15) Write a balanced chemical equation for the combustion of C₄H₈.

16) Write a balanced equation for the reaction of hydrochloric acid (HCl) and magnesium metal.

17) Write a balanced chemical equation for the double replacement reaction of barium chloride solution and sodium carbonate solution.