REINFORCEMENT

Chapter 21

Types of Chemical Reactions

14. $BaC1_2(aq) + 2KIO_3(aq) \longrightarrow Ba(IO_3)_2(cr) + 2KCl(aq)$

Match each type of chemical reaction in Column II with its description in Column I. Write the letter of the correct reaction in the space provided.

	Column I	Column II
	1. A precipitate, water, or a gas forms when two ionic	a. synthesis reaction
	compounds are dissolved in a solution.	b. decomposition reaction
	2. Two or more substances combine to form another substance	c. single displacement reaction
-	3. One element replaces another in a compound	d. double displacement reaction
	4. A substance breaks down into two or more simpler substance	es.
Classify each of the following chemical reactions as a synthesis reaction, decomposition reaction, single displacement reaction, or double displacement reaction. Write the name of the reaction type on the line on the right.		
5.	$4\text{Fe}(\text{cr}) + 3\text{O}_2(\text{g}) \longrightarrow 2\text{Fe}_2\text{O}_3(\text{cr})$	
6.	$Zn(cr) + 2HCl(aq) \longrightarrow ZnCl_2(aq) + H_2(g)$	
7.	$MgCO_3(aq) + 2HCl(aq) \longrightarrow MgCl_2(aq) + H_2O(l) + CO_2(g)$	
8.	$NiCl_2(cr) \longrightarrow Ni(cr) + Cl_2(g)$	
9.	$4C(cr) + 6H_2(g) + O_2(g) \longrightarrow 2C_2H_6O(cr)$	
10.	$C_{12}H_{22}O_{11}(cr) \longrightarrow 12C(cr) + 11H_2O(g)$	
11.	$2LiI(aq) + Pb(N0_3)_2(aq) \longrightarrow 2LiNO_3(aq) + PbI_2(cr)$	
12.	$CdCO_3(cr) \longrightarrow CdO(cr) + CO_2(g)$	
13.	$C1_2(g) + 2KBr(aq) \longrightarrow 2KCl(aq) + Br_2(g)$	