

Name: _____ Class: _____ Date: _____

Complete and balance the following reactions. Indicate the state (solid, liquid or gas) of the products when known. If heat is produced as a product include it. If no reaction occurs write NR in the answer blank.

1. $\text{Fe}(\text{NO}_3)_3 (aq) + \text{CaCrO}_4 (aq) \rightarrow$ 1. _____
2. $\text{ZnSO}_4 (aq) \rightarrow$ 2. _____
3. $\text{K}_2\text{CO}_3 (aq) + \text{HNO}_3 (aq) \rightarrow$ 3. _____
4. $\text{Cl}_2 (g) + \text{NaBr} (aq) \rightarrow$ 4. _____
5. $\text{NH}_4\text{Br} (aq) + \text{Na}_2\text{CO}_3 (aq) \rightarrow$ 5. _____
6. $\text{Al}_2(\text{SO}_4)_3 (aq) + \text{CaCl}_2 (aq) \rightarrow$ 6. _____
7. $(\text{NH}_4)_2\text{SO}_4 (aq) + \text{BaCl}_2 (aq) \rightarrow$ 7. _____
8. $\text{MgCO}_3 (aq) \rightarrow$ 8. _____
9. $\text{FeCl}_2 (aq) + \text{H}_2\text{SO}_4 (aq) \rightarrow$ 9. _____
10. $\text{O}_2 (g) + \text{C}_2\text{H}_5\text{OH} (aq) \rightarrow$ 10. _____
11. $\text{H}_2\text{C}_2\text{O}_4 (aq) + \text{KOH} (aq) \rightarrow$ 11. _____
12. $\text{Fe} (s) + \text{MgCl}_2 (aq) \rightarrow$ 12. _____
13. $\text{Zn} (s) + \text{HNO}_3 (aq) \rightarrow$ 13. _____

14. $\text{HCl} (aq) + \text{Mg}(\text{OH})_2 (aq) \longrightarrow$ 14. _____
15. $\text{C}_3\text{H}_6\text{O}_2 (aq) + \text{O}_2 (g) \longrightarrow$ 15. _____
16. $\text{Pb}(\text{NO}_3)_2 (aq) + \text{KCl} (aq) \longrightarrow$ 16. _____
17. $\text{NaCl} (aq) + \text{Ca} (s) \longrightarrow$ 17. _____
18. $\text{Al}_2(\text{CO}_3)_3 (aq) + \text{H}_2\text{SO}_4 (aq) \longrightarrow$ 18. _____
19. $\text{H}_2\text{SO}_4 (aq) + \text{Ba}(\text{OH})_2 (aq) \longrightarrow$ 19. _____
20. $\text{NH}_4\text{Br} (aq) + \text{Cu}_2\text{CO}_3 (aq) \longrightarrow$ 20. _____
21. $\text{Pb}(\text{NO}_3)_2 (aq) + \text{Na}_2\text{CrO}_4 (aq) \longrightarrow$ 21. _____
22. $\text{Al} (s) + \text{H}_3\text{PO}_4 (aq) \longrightarrow$ 22. _____
23. $\text{Pb} (s) + \text{ZnCl}_2 (aq) \longrightarrow$ 23. _____
24. $\text{Zn}(\text{NO}_3)_2 (aq) + \text{HI} (aq) \longrightarrow$ 24. _____
25. $\text{Cl}_2 (g) + \text{FeBr}_3 (aq) \longrightarrow$ 25. _____