Chemistry Objective 6.02
Worksheet – Balancing Equations

Identifying and Balancing Chemical Equations

Directions: Identify each of the equations below as synthesis, decomposition, single replacement or double replacement.

1. $HgO \rightarrow Hg + O_2$	
2. $NaCl + AgNO_3 \rightarrow NaNO_3 + AgCl$	
3. $Mg + HCl \rightarrow MgCl_2 + H_2$	
4. $Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2$	
5. $NaOH + HCl \rightarrow NaCl + H_2O$	
6. $Al_2(SO_4)_3 + Ca(OH)_2 \rightarrow Al(OH)_3 + CaSO_4$	
7. $H_2 + O_2 \rightarrow H_2O$	
8. $Cl_2 + NaBr \rightarrow NaCl + Br_2$	
9. $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$	
10. $KClO_3 \rightarrow KCl + O_2$	
11. $H_2O + Fe \rightarrow Fe_2O_3 + H_2$	
12. $Ca(OH)_2 + HNO_3 \rightarrow Ca(NO_3)_2 + H_2O$	
13. $Na_2O + CO_2 \rightarrow Na_2CO_3$	
14. $H_2 + N_2 \rightarrow NH_3$	