Name: _____ **Date:** _____

Balancing Chemical Equations

Balance the following chemical equations.

1. ____ KOH + ____ H_3PO_4 $\longrightarrow$ ____ K_3PO_4 + ____ H_2O

2. ____ NH_3 + ____ O_2 $\longrightarrow$ ____ NO + ____ H_2O

3. ____ Al + ____ O_2 $\longrightarrow$ ____ Al_2O_3

4. ____ $CO(g)$ + ____ $H_2(g)$ $\longrightarrow$ ____ $C_8H_{18}(\ell)$ + ____ H_2O

5. ____ Au_2S_3 + ____ H_2 $\longrightarrow$ ____ Au + ____ H_2S

6. ____ $Hg(OH)_2$ + ____ H_3PO_4 $\longrightarrow$ ____ $Hg_3(PO_4)_2$ + ____ NH_3

7. ____ Ba_3N_2 + ____ HF $\longrightarrow$ ____ SiF_4 + ____ H_2O

8. ____ $CaCl_2$ + ____ Na_3PO_4 $\longrightarrow$ ____ $Ca_3(PO_4)_2$ + ____ $NaCl$

9. ____ FeS + ____ O_2 $\longrightarrow$ ____ Fe_2O_3 + ____ SO_2

10. ____ $HClO_4$ + ____ P_4O_{10} $\longrightarrow$ ____ H_3PO_4 + ____ Cl_2O_7

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