Balancing Chemical Equations Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_ Fe + \_\_\_\_\_ S → \_\_\_\_\_ FeS

2. \_\_\_\_\_ H2 + \_\_\_\_\_ Cl2 → \_\_\_\_\_ HCl

3. \_\_\_\_\_ Mg + \_\_\_\_\_ O2 → \_\_\_\_\_ MgO

4. \_\_\_\_\_ O2 + \_\_\_\_\_ H2 → \_\_\_\_\_ H2O

5. \_\_\_\_\_ HgO → \_\_\_\_\_ Hg + \_\_\_\_\_ O2

6. \_\_\_\_\_ Ca + \_\_\_\_\_ H2O → \_\_\_\_\_ Ca(OH)2 + \_\_\_\_\_ H2

7. \_\_\_\_\_ CH4 + \_\_\_\_\_ O2  → \_\_\_\_\_ CO2  + \_\_\_\_\_ H20

8. \_\_\_\_\_Na2O2 + \_\_\_\_\_H2SO4 → \_\_\_\_\_Na2SO4 + \_\_\_\_\_H2O2

9. \_\_\_\_\_ N2 + \_\_\_\_\_ H2 → \_\_\_\_\_ NH3

10. \_\_\_\_\_ Al + \_\_\_\_\_ O2 → \_\_\_\_\_ Al2O3

11. \_\_\_\_\_ KMnO4 → \_\_\_\_\_ K2O + \_\_\_\_\_ MnO + \_\_\_\_\_ O2

12. \_\_\_\_\_ NH3 + \_\_\_\_\_\_ CuO 🡪 \_\_\_\_\_ N2 + \_\_\_\_\_ Cu + \_\_\_\_\_ H2O

13. \_\_\_\_\_ H2SO4 + \_\_\_\_\_\_ NaOH → \_\_\_\_\_ Na2SO4 + \_\_\_\_\_H2O

14. \_\_\_\_\_ K + \_\_\_\_\_ B2O3 🡪 \_\_\_\_\_ K2O + \_\_\_\_\_ B

15. \_\_\_\_\_ Na + \_\_\_\_\_ NaNO3 🡪 \_\_\_\_\_ Na2O + \_\_\_\_\_ N2

16. \_\_\_\_\_ N2 + \_\_\_\_\_ O2 🡪 \_\_\_\_\_ N2O5

17. \_\_\_\_\_ Al + \_\_\_\_\_ S8 🡪 \_\_\_\_\_ Al2S3

18. \_\_\_\_\_ Cs + \_\_\_\_\_ N2 🡪 \_\_\_\_\_ Cs3N

19. \_\_\_\_\_ F2 + \_\_\_\_\_ Al2O3 🡪 \_\_\_\_\_ AlF3 + \_\_\_\_\_ O2

20. \_\_\_\_\_ Mg + \_\_\_\_\_ Cl2 🡪 \_\_\_\_\_ MgCl2

Extra Credit Problems

1. \_\_\_\_\_ Al(OH)3 + \_\_\_\_\_ H2CO3 🡪 \_\_\_\_\_ Al2(CO3)3 + \_\_\_\_\_ H2O
2. \_\_\_\_\_ C2H6 + \_\_\_\_\_O2 🡪 \_\_\_\_\_ CO + \_\_\_\_\_ H2O
3. \_\_\_\_\_ NH3 + \_\_\_\_\_O2 🡪 \_\_\_\_\_NO + \_\_\_\_\_ H2O
4. \_\_\_\_\_ C5H12 + \_\_\_\_\_ O2 🡪 \_\_\_\_\_ CO + \_\_\_\_\_ H2O
5. \_\_\_\_\_ C8H18 + \_\_\_\_\_ O2 🡪 \_\_\_\_\_ CO + \_\_\_\_\_ H20