Name: \_\_\_\_\_\_\_\_ANSWER KEY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

**More Balancing! Worksheet A**

Instructions: *Show all work (RAP Tables) on a separate sheet of paper and attach to this handout.*

1. \_\_\_\_\_ CH4 + \_\_2\_ O2 🡪 \_\_\_\_\_ CO2 + \_\_2\_ H2O
2. \_\_4\_\_ Al + \_\_3\_ O2 🡪 \_\_2\_\_ Al2O3
3. \_\_\_\_\_ C2H4 + \_\_3\_\_ O2 🡪 \_2\_\_ CO2 + \_2\_\_ H2O
4. \_\_\_\_\_ CO + \_\_2\_ H2 🡪 \_\_\_\_\_ CH3OH
5. \_\_4\_ HCl + \_\_\_\_\_ O2 🡪 \_\_2\_\_ H2O + \_\_2\_\_ Cl2
6. \_\_\_\_\_ AlCl3 + \_3\_\_ H2O (can rewrite as H(OH)) 🡪 \_\_\_\_\_ Al(OH)3 + \_\_3\_\_ HCl
7. \_\_\_\_\_ N2 + \_\_2\_\_ H3 🡪 \_\_2\_\_ NH3
8. \_\_2\_\_ Fe(NO3)3 + \_\_3\_\_ MgO 🡪 \_\_\_\_\_ Fe2O3 + \_\_3\_\_ Mg(NO3)2
9. \_\_4\_\_ Fe + \_\_3\_\_ O2 🡪 \_\_2\_ Fe2O3
10. \_\_\_\_\_ CaCO3 🡪 \_\_\_\_\_ CaO + \_\_\_\_\_ CO2 already balanced ☺
11. \_\_2\_\_ HBr + \_\_\_\_\_ H2SO4 🡪 \_\_\_\_\_ SO2 + \_\_\_\_\_ Br2 + \_\_2\_\_ H2O
12. \_\_2\_\_ NH4OH + \_\_\_\_\_ H2SO4 🡪 \_\_\_\_\_ (NH4)2SO4 + \_\_2\_\_ H2O (H(OH))
13. \_\_2\_ KClO3 🡪 \_\_2\_\_ KCl + \_\_3\_\_ O2
14. \_\_\_\_\_ CS2 + \_3\_\_ O2 🡪 \_\_\_\_\_ CO2 + \_\_2\_ SO2
15. \_\_\_\_\_ C2H5OH + \_3\_\_ O2 🡪 \_\_2\_\_ CO2 + \_\_3\_ H2O
16. \_\_\_\_\_ S8 + \_\_12\_\_ O2 + \_\_8\_ H2O 🡪 \_\_8\_\_ H2SO4
17. \_\_\_\_\_ C12H22O11 + \_\_12\_\_\_ O2 🡪 \_\_12\_\_ CO2 + \_\_11\_\_ H2O
18. \_\_3\_ Ca(OH)2 + \_2\_\_ H3PO4 🡪 \_\_\_\_\_ Ca3(PO4)2 + \_\_6\_\_ H2O (H(OH))
19. \_\_4\_\_ (NH4)3N + \_\_3\_\_ Cr(CrO4)2 🡪 \_\_6\_\_ (NH4)2CrO4 + \_\_\_\_\_ Cr3N4
20. \_\_\_\_\_ Cu3(PO4)2 + \_\_3\_\_ Na2SO4 🡪 \_\_2\_\_ Na3PO4 + \_\_3\_\_ CuSO4