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

**“Yikes” Balancing! Worksheet B**

Part 1 Instructions: *Show all work (RAP Tables) on a separate sheet of paper and attach to this handout.*

1. \_\_\_\_\_ C2H5OH + \_3\_\_ O2 🡪 \_\_2\_\_ CO2 + \_\_3\_ H2O
2. \_\_\_\_\_ S8 + \_\_12\_\_ O2 + \_\_8\_ H2O 🡪 \_\_8\_\_ H2SO4
3. \_\_3\_ Ca(OH)2 + \_2\_\_ H3PO4 🡪 \_\_\_\_\_ Ca3(PO4)2 + \_\_6\_\_ H2O (can write as H(OH))
4. \_\_4\_\_ (NH4)3N + \_\_3\_\_ Cr(CrO4)2 🡪 \_\_6\_\_ (NH4)2CrO4 + \_\_\_\_\_ Cr3N4
5. \_\_\_\_\_ Cu3(PO4)2 + \_\_3\_\_ Na2SO4 🡪 \_\_2\_\_ Na3PO4 + \_\_3\_\_ CuSO4
6. \_3\_\_ Cu + \_8\_ HNO3 🡪 \_3\_\_ Cu(NO3)2 + \_2\_ NO + \_\_4\_ H2O
7. \_\_\_\_ S    +   \_6\_\_ HNO3   🡪   \_\_\_\_ H2SO4   +    \_6\_\_ NO2  +  \_2\_\_ H2O

Part 2 Instructions: Write chemical formulas/chemical equations for the following word equations. THEN BALANCE. *Show all work (RAP Tables) on a separate sheet of paper and attach to this handout.*

1. Aluminum hydroxide + sodium nitrate 🡪 aluminum nitrate + sodium hydroxide

Al(OH)3 + 3NaNO3 🡪 Al(NO3)3 + 3NaOH

1. Calcium carbonate 🡪 Calcium oxide + carbon dioxide

CaCO3 🡪 CaO + CO2 (already balanced)

1. Beryllium fluoride + magnesium 🡪 magnesium fluoride + beryllium

BeF2 + Mg 🡪 MgF2 + Be (already balanced)

1. Sodium bicarbonate 🡪 sodium carbonate + carbon dioxide + water

2NaHCO3 🡪 Na2CO3 + CO2 + H2O

1. Potassium chloride + silver (I) sulfate 🡪 potassium sulfate + silver (I) chloride

2KCl + Ag2SO4 🡪 K2SO4 + 2AgCl