**Balancing Equations** **Practice** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part A: Identify the following parts of each chemical formula by circling the subscripts and drawing a square around the coefficients.**

 H2 2 HCl 4 O2 CH4 3 CO3 2 NaOH

**Part B: List the symbols for the atoms in each formula and give the number of each.**

 C2H6 2MgO 4P4O10

#  NH3 3 Al(OH)3 2 H2O2

**Part C: Balance each of the following equations following the procedure described in class. Be sure to show your work.**

##  P + O2  → P4O10 Mg + O2 → MgO

 P = P = Mg = Mg =

 O = O = O = O =

##  HgO → Hg + O2 Al2O3 → Al + O2

 Hg = Hg = Al = Al =

 O = O = O = O =

## BaCl2 + H2SO4 → BaSO4 + HCl

 Ba = Ba =

 Cl = Cl =

 H = H =

 S = S =

 O = O =

**Part D: Practice Problems – Balance each equation using the process from Part C.**

Cl2 + NaBr → NaCl + Br2 H2 + N2 → NH3

Na + Br2 → NaBr CuCl2 + H2S → CuS + HCl

HgO + Cl2 → HgCl + O2 C + H2 → CH4

Challenge Problem: Give it your best shot!

# C2H6 + O2 → CO2 + H2O