

**Balancing Equations Practice**

Name \_\_\_\_\_

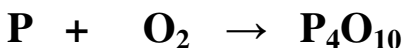
**Part A: Identify the following parts of each chemical formula by circling the subscripts and drawing a square around the coefficients.**



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



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



P =                      P =  
O =                      O =



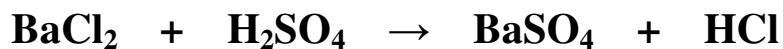
Mg =                      Mg =  
O =                      O =



Hg =                      Hg =  
O =                      O =

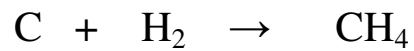
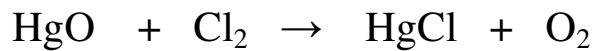
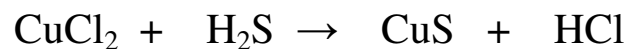
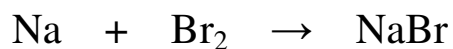
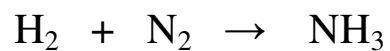
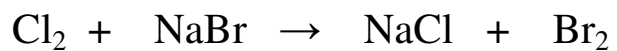


Al =                      Al =  
O =                      O =

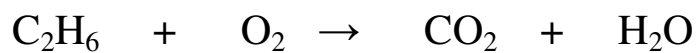


Ba =                      Ba =  
Cl =                      Cl =  
H =                      H =  
S =                      S =  
O =                      O =

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



**Challenge Problem: Give it your best shot!**



## Balancing Equations Practice

## ANSWER KEY

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



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



$$\text{C} = 2$$

$$\text{H} = 6$$



$$\text{Mg} = 2$$

$$\text{O} = 2$$



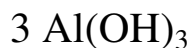
$$\text{P} = 16$$

$$\text{O} = 40$$



$$\text{N} = 1$$

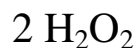
$$\text{H} = 3$$



$$\text{Al} = 3$$

$$\text{O} = 9$$

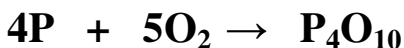
$$\text{H} = 9$$



$$\text{H} = 4$$

$$\text{O} = 4$$

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



$$\text{P} =$$

$$\text{O} =$$

$$\text{P} =$$

$$\text{O} =$$



$$\text{Mg} =$$

$$\text{O} =$$

$$\text{Mg} =$$

$$\text{O} =$$



$$\text{Hg} =$$

$$\text{O} =$$

$$\text{Hg} =$$

$$\text{O} =$$

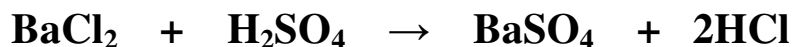


$$\text{Al} =$$

$$\text{O} =$$

$$\text{Al} =$$

$$\text{O} =$$



$$\text{Ba} =$$

$$\text{Cl} =$$

$$\text{H} =$$

$$\text{S} =$$

$$\text{O} =$$

$$\text{Ba} =$$

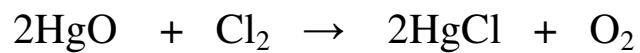
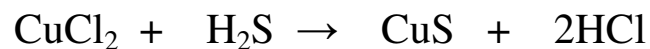
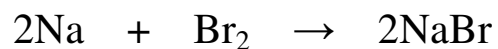
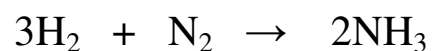
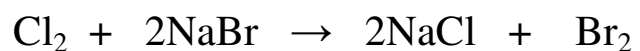
$$\text{Cl} =$$

$$\text{H} =$$

$$\text{S} =$$

$$\text{O} =$$

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



**Challenge Problem:**

