Name ______ Teacher _____ Block ____

Date _____

Balancing Equations WS 1

Add the correct coefficient (number before the formula), as needed to the following equations.

1. $Mg + O_2 \rightarrow MgO$

2. $KClO_3 \rightarrow KCl + O_2$

3. $MgBr_2 + Cl_2 \rightarrow MgCl_2 + \underline{\hspace{1cm}} Br_2$

4. ____Ca(OH) $_2$ + ____HNO $_3$ \rightarrow ____H $_2$ 0 + ____Ca(NO $_3$) $_2$

5. Al + HCl \rightarrow AlCl₃ + H₂

6. $H_2 + N_2 \rightarrow NH_3$

7. $_$ AgNO₃ + $_$ NaCl \rightarrow $_$ AgCl + $_$ NaNO₃

8. K + $H_2O \rightarrow$ KOH + H_2

9. ___Al(OH)₃ + ___H₂SO₄ \rightarrow ___Al₂(SO₄)₃ + ___H₂O

10. NaI + Cl₂ \rightarrow NaCl + ____I₂

Balance each of the following equations by adding the correct coefficients.

11. $H_2 + Cl_2 \rightarrow HCl$

12. Al + Fe₂O₃ \rightarrow Al₂O₃ + Fe

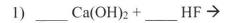
13. $Pb(C_2H_3O_2)_2 + H_2S \rightarrow PbS + HC_2H_3O_2$

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Clas Date	S Block Balancing Equations V	WC 2
Give the correct formulas for the following from the word equations and balance the chemical equations.		
1.	potassium bromide + barium iodide → potassium iodide + ba	arium bromide
2.	copper (I) sulfide + oxygen → copper (I) oxide + sulfur dioxi	de
3.	aluminum + oxygen → aluminum oxide	
4.	calcium hydroxide + ammonium sulfate → calcium sulfate + a	ammonia + water
5.	ethane (C_2H_6) + oxygen \rightarrow carbon dioxide + water	
6.	hydrochloric acid + magnesium hydroxide → magnesium chlor	ride + water
7.	nitric acid + calcium hydroxide → calcium nitrate + water	
8.	sodium chloride + hydrogen sulfate + manganese (IV) oxide →	manganese (II) sulfate + sodium sulfate + chlorine + water

Reaction Products Worksheet

For each of the following reactions, determine what the products of each reaction will be. When you have predicted the products, balance the equation and use a table of solubility products to determine which of the products (if any) will precipitate. Assume all reactions take place in water.

THERE IS ONE REACTION THAT WILL NOT TAKE PLACE BECAUSE THE ORIGINAL REACTANTS ARE NOT SOLUBLE IN WATER. It is one of the last 3 equations.



2) ____ Pb(NO₃)₂ + ____ K₂CrO₄
$$\rightarrow$$

3)
$$\underline{\hspace{1cm}}$$
 NaC₂H₃O₂ + $\underline{\hspace{1cm}}$ H₂SO₄ \rightarrow

4) ____ Cu(OH)₂ + ____ H₃PO₄
$$\rightarrow$$

5)
$$_$$
 AgNO₃ + $_$ Na₂CO₃ \rightarrow

6)
$$Z_n + H_2CO_3 \rightarrow$$

7) ____ Pb(OH)₂ + ____ Hg₂S
$$\rightarrow$$