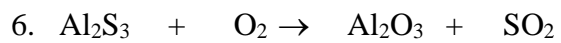
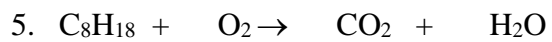
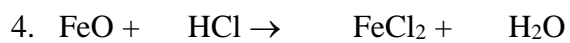
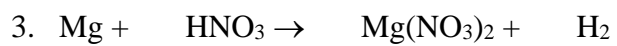
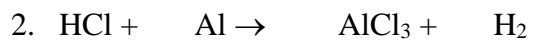
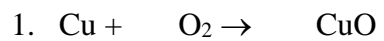


Name _____

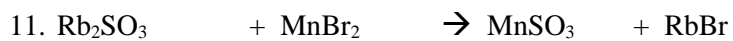
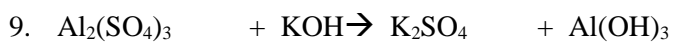
Balance the equations



Net Ionic Equations Worksheet

Complete the following reactions by doing the following:

1. Place either (aq) or (s) after each compound by using the "Solubility Rules."
2. Write the *net ionic equation* for each reaction.



Predicting Precipitation Reactions

For each reaction, predict the **full molecular equation**, do not place any additional marks on this, I need to grade it. Then determine and balance the **net ionic equation**.

12. Solutions of potassium phosphate and zinc (II) nitrate are mixed.

13. Solutions of manganese (II) sulfate and ammonium sulfide are mixed.

14. Solutions of sodium iodide and lead (II) nitrate are mixed.

Percent Composition and Empirical Formula General Chemistry

Calculate the molar mass and percent composition of each atom. (determine the formula first for 2-4)

15. $C_4H_9O_2$

16. Ammonium sulfate

17. Calcium carbonate

18. Magnesium phosphate

Determine the empirical formula for the following compounds

19. 94.1 % O, 5.9 % H

20. 7.8% C, 92.2 % Cl