| Na | me: Chem 10, Section: | |
|----------|---|--|
| | Prelab Assignment: Single and Double Displacement Reactions | |
| 1. | In this lab you will perform a variety of single and double displacement reactions. What are three observable signs that a chemical reaction has occurred? | |
| 2. | What is the general equation of a single displacement reaction? | |
| 3. a. | For each of the following sets of reactants, write the balanced equation for the single displacement reaction that occurs. If you determine that a reaction will not occur, write "NR", and provide a brief explanation. Aluminum metal + aqueous nickel(II) nitrate | |
| b. | Gold metal + hydrobromic acid | |
| 4. | What is the general equation of a double displacement reaction? | |
| 5. a. | For each of the following sets of reactants, write the balanced equation for the double displacement reaction that occurs. If you determine that a reaction will not occur, write "NR", and provide a brief explanation. Aqueous zinc chloride + aqueous sodium chromate | |
| b. | Aqueous lithium hydroxide + phosphoric acid | |
| 6. a. | The equipment required for this lab is fairly simple - just 8 small test tubes and 6 large test tubes. Using the <u>small</u> test tubes you will mix two aqueous solutions together and observe whether or not a reaction occurs. What quantity of each solution will you use? How will you estimate this quantity? | |
| b. | What do the reactions studied in the <u>large</u> test tubes all have in common? | |
| c. | In the reactions involving both a solid and a solution as reactants, which do you place in the test tube first? | |