

## SOLUBILITY LAB WRITE UP and REQUIRED DOCUMENTS

- **Predicting Metathesis Reactions Chart** (from Monday's class)
- **Molecular, Ionic and Net Ionic Equations** for any precipitate found based on the Solubility Rules from the above Chart.
- **Prelab Questions #1-3**
- **Trial Sheets** (filled out with all reactions that produced a precipitate in lab showing the reagents, molecular, ionic and net ionic equations in detail).
- **Lab Write up:**
  - Title:**
  - Purpose:**
  - Introduction- Basic Terms in solution chemistry:**

Define the terms: Soluble, Insoluble and Slightly Soluble, precipitate, precipitation reaction, strong electrolyte, weak electrolyte and nonelectrolyte and answer the following questions in full and complete sentences.

2) Based on your definitions and your text reading, describe *what you would see* in the laboratory if you had a test tube with a soluble substance in water versus a test tube with an insoluble or slightly soluble substance in water.

3) Explain what specifically must be present in order for a solution to conduct electricity.

4) How could you determine if a substance was an electrolyte?

4) What common (household) substance could you suggest that would conduct electricity in water? Explain why.

5) What common (household) substance would NOT conduct? Explain why this substance would NOT conduct.
  - Safety and Disposal:** (Describe these concerns in your own words in full and complete sentences)
  - Reagents:** (a list of all solutions)
  - Procedure:** (Simplify what YOU did and describe in full and complete sentences).
  - Data Tables:** All four with your recorded observations and results
  - Conclusion Statement**
- **Postlab Questions #1-3**
- **Journal Entry**