

## Precipitate Analysis Lab Report

- I Fill out a good copy of the "Precipitate Analysis Test Observations" observation table which includes either "soluble combination" or "ppte" in each box the nine observation boxes. If a precipitate (ppte) was observed, include a visual description as well as the correct formula of the precipitate.
- II Create a good copy of the "ppte analysis flow chart" as shown on the board (should be one full page) - please use a ruler.
- III Create a table of for the eighth unknowns that were tested by the class using the column headings:

Unknown Number	Test with $\text{Cl}^{1-}$ (NaCl) $\text{Ag}^{1+}$ Present	Test with $\text{SO}_4^{2-}$ ( $\text{Na}_2\text{SO}_4$ ) $\text{Ba}^{2+}$ Present	Test with $\text{Fe}(\text{CN})_6^{4-}$ ( $\text{K}_4\text{Fe}(\text{CN})_6$ ) $\text{Zn}^{2+}$ Present
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- IV Answers to the following questions:
- Pick two of the unknowns that were tested. Using the flow chart for reference, state whether  $\text{Ag}^{1+}$ ,  $\text{Ba}^{2+}$  or  $\text{Zn}^{2+}$  was present or absent. For each determination write a complete statement that makes sense, such as: " $\text{Ag}^{1+}$  was present because a precipitate was observed with  $\text{Cl}^{1-}$  from NaCl" or " $\text{Ag}^{1+}$  was not present because no precipitate was observed with  $\text{Cl}^{1-}$  from NaCl". To answer this question properly you will need to write a total of three statements per unknown. Be sure to identify the unknown you are doing and be sure to organize your work in a logical and attractive manner (perhaps indentation would help).
  - Write molecular, ionic and net ionic equations for all four possible precipitate reactions. These precipitates can be identified using the table from part I. Yes this is the long and difficult type of question worth four marks on the midterm. Don't forget your charges!!!