CHEQ 1094: CHEMICAL REACTIONS

Date:	Name:	Lab Day/Time:
Objective		
	vations of chemical reactions using that have taken place in terms of b	the senses of sight, touch, and smell, and to describe alanced chemical equations.
Procedure		
As in the Chem 1094 la	b manual, pages	
Observations	and Chemical Reaction	ns (see next page)

Part I: Chemical reactions

PROCEDURE 1					
To 5 drops of lead (II) nitrate solution, add 5 drops of potassium iodide solution.					
Observations					
Equation					
PROCEDURE 2					
To 5 drops of lead (II) nitrate solution, add 15 drops of hydrochloric acid solution.					
Observations					
Equation					
Equation					
PROCEDURE 3					
To a small piece of magnesium metal, add 1 mL of hydrochloric acid solution.					
Observations					
Equation					

PROCEDURE 4
To 3 mL of sodium hydroxide solution, add 3 mL of hydrochloric acid solution.
Observations
Equation
PROCEDURE 5
To a piece of zinc metal, add 1 mL of copper (II) sulfate solution.
Observations
Equation
Equation
PROCEDURE 6
To 10 drops of sodium chloride solution, add 5 drops of silver nitrate solution.
Observations
Equation

PROCEDURE 7
To 5 drops of barium chloride solution, add 5 drops of sodium carbonate solution.
Observations
Equation
Equation
PROCEDURE 8
To 5 drops of barium nitrate solution, add 5 drops of sodium sulfate solution.
Observations
Equation
PROCEDURE 9
To 1 mL of hydrochloric acid solution, add 10 drops of sodium carbonate solution.
Observations
Equation

PROCEDURE 10
To 10 drops of sodium carbonate solution, add 5 drops of copper (II) sulfate solution.
Observations
Equation
PROCEDURE 11 (OPTIONAL, AT THE DISCRETION OF THE LAB INSTRUCTOR)
Dip a clean piece of copper wire into a thin layer of silver nitrate solution which is sitting in a watchglass under a stereomicroscope. Observe the results through the stereomicroscope.
Observations
Equation
Part II: Physical Processes
PROCEDURE 12
To 3 mL of distilled water, add 1 gram of solid ammonium chloride.
Observations
Equation

PROCEDURE 13					
To 3 mL of distilled water, add 1 g of solid calcium chloride.					
Observations					
Fauntion					
Equation					
PROCEDURE 14					
To 5 drops of nickel(II) chloride solution, add 10 drops of sodium chloride solution.					
Observations					
Equation					

Part III: Precipitation Reactions

	Cl-	SO ₄ ² -	I-	CO ₃ 2-	CrO ₄ ² -	Unknown (anion)
Ag+						
Ni ²⁺						
Pb ²⁺						
Ba ²⁺						
Unknown (cation)						

Conclusion

Questions

Attach any questions assigned by your lab instructor.