EXP: TEST FOR ANIONS NAME_____PERIOD____

PROCEDURE: For each anion test, use a squirt of each chemical in a test tube. Record your observations after each addition of a chemical.

To TEST FOR	ADD	OBSERVATIONS
GROUP 1 Precipitate with $BaCl_2$		
1. Sulfate, SO_4^{-2}	$BaCl_2$ and HCl	1.
2. Carbonate, CO_3^{-2}	$BaCl_2$ and HCl	2.
3. Phosphate, PO_4^{-3} (If no reaction, go back to the original solution and do step 4.)	$BaCl_2$ and HCl	3.
GROUP 2 Precipitate with $AgNO_3$		
4. Phosphate, PO_4^{-3}	$AgNO_3$	4.
4a. PO_4^{-3}, confirming test, Use original solution, add Ammonium molybdate. Heat in double boiler.		4a.
5. Chloride, Cl^{-1}	$AgNO_3$, NH_4OH, HNO_3	5.
6. Bromide, Br^{-1}	$AgNO_3$, NH_4OH, HNO_3	6.
6a. Br^{-1}, confirming test, Add an equal amount of 3% starch solution, add **1 or 2 drops** of NaOCl (Bleach).		6a.
7. Iodide, I^{-1}	$AgNO_3$, NH_4OH, HNO_3	7.
7a. I^{-1}, confirming test, Add an equal amount of 3% starch solution, add **1 or 2 drops** of NaOCl (Bleach).		7a.
GROUP 3 Soluble group, will not precipitate		
8. Nitrate, NO_3^{-1} Use equal amounts of $NaNO_3$ and $FeSO_4$, then add a small amount of conc. H_2SO_4 to the tilted test tube, allowing it to run down the side. Look for the brown ring.	$FeSO_4$ and conc. H_2SO_4	8.