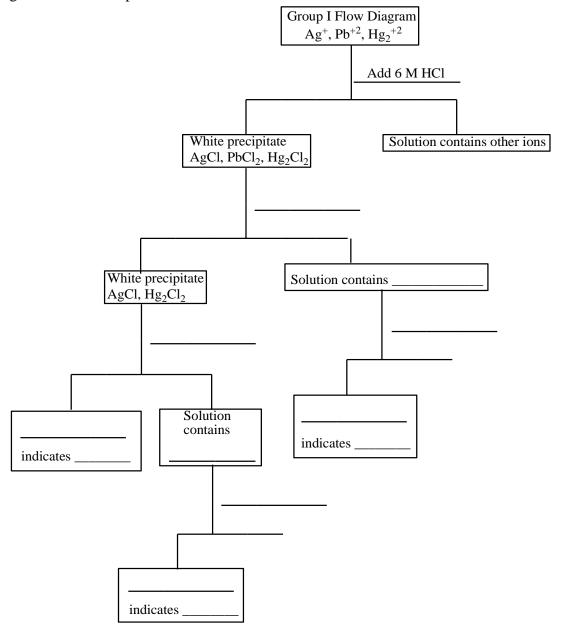
Name:	Section:	

It is possible to summarize the directions for analysis of the Group I cations in what is called a flow diagram. In the diagram, vertical lines link successive steps in the procedure. Reactant cations or reactant substances containing the ions are at the top end of each line and products formed are at the bottom end. On the product end, a horizontal line separates the solid products on the left and the solution products on the right. Reagents and conditions used to carry out each step are placed alongside the lines. A partially completed flow diagram for the Group I ions follows:



Use this diagram as a brief guide to the procedure. Complete the flow diagram above by directly recording your observations on your known (in the boxes) and unknown (beside the boxes), perhaps using different colored markers.

Name:	Section:		
Experiment Results:			
UNKNOWN NUMBER	IONS PRESENT		
Post-Lab Questions: Group I (Cations		
6 M HCl. The precipitate is treatment with hot water to present, which are absent, and	lution may contain Ag ⁺ , Pb ²⁺ , and Hg ₂ ²⁺ . A white precipitate forms on addition of HCl. The precipitate is partially soluble in hot water. The solid remaining after ment with hot water turns black on addition of 6 M NH ₃ . Which of the ions are ent, which are absent, and which remain undetermined? State your reasoning below. E: simply listing ions below without the appropriate reasoning will NOT earn you credit!		
P	Present		
Α	Absent		
Iı	n Doubt		