Name	Period
Partner	Date

Precipitation Lab

Prelab Questions

- 1) Which ions, and how many of each, are present in the following compounds:
- a) $Pb(NO_3)_2$
- b) CoSO₄
- c) NH₄I

Procedure

- 1. Wear safety goggles and follow all lab safety rules.
- 2. In a 96 well reaction plate, place approximately 2 drops each of the chemicals shown in the table below in each of the wells that are shown. Follow the pattern on the data table.
- 3. Observe the plate for at least five minutes. Record in the data table any observations you may see. List color changes, formation of precipitate, and any smell that you notice.
- 4. Clean the plate by slapping it smartly on a paper towel and then running large amounts of water over it. Clean any residues by scraping with a toothpick.
- 5. Clean up.

Data Table

		1	2	3	4	5	6	7	8
		MnCl ₂	$\mathrm{NH_{4}I}$	BaCl ₂	CoSO ₄	K ₂ CO ₃	NaOH	HCl	Pb(NO ₃) ₂
A	MnCl ₂	X							
В	NH ₄ I		X						
С	BaCl ₂			X					
D	CoSO ₄				X				
Е	K ₂ CO ₃					X			
F	NaOH						X		
G	HCl							X	
Н	CuSO ₄								

Post Lab Questions

- 1) Explain why the precipitate in H-8 is not CuPb?
- 2) Explain why the precipitate in H-8 is not SO_4NO_3
- 3) Write balanced net ionic equations for each of the reactions listed.

A-5	
A-6	
A-7	
B-3	
B-8	
C-2	
C-4	
C-8	
D-6	
E-3	
E-8	
F-4	
F-8	
H-5	
Н-6	
H-8	