Name:	Section:

those solutions, you can make mixtures with the other solutions in which one of the components is known. From the results obtained with those mixtures and the information in the matrix, you can identify other solutions. These can be used to identify still others, until the entire set of ten is finally identified.

## **Pre-lab Questions**

1. Fill in the matrix below to show how various solutions react, as described in the procedure.

НСІ	H <sub>2</sub> SO <sub>4</sub>	NaOH	NH₄OH	AI(NO <sub>3</sub> ) <sub>3</sub>	AgNO <sub>3</sub>	Ca(NO <sub>3</sub> ) <sub>2</sub>	Cu(NO <sub>3</sub> ) <sub>2</sub>	Ni(NO <sub>3</sub> ) <sub>2</sub>	SnCl <sub>4</sub>	
				-					·	нсі
										H <sub>2</sub> SO <sub>4</sub>
										NaOH
										NH <sub>4</sub> OH
										AI(NO <sub>3</sub> ) <sub>3</sub>
										AgNO₃
										Ca(NO <sub>3</sub> ) <sub>2</sub>
										Cu(NO <sub>3</sub> ) <sub>2</sub>
										Ni(NO <sub>3</sub> ) <sub>2</sub>
										SnCl <sub>4</sub>
										NOTES

Name:	Section:					
2. Which solutions should you expect to identify by simple observations?						

3. Outline the procedure you will follow in identifying the remaining solutions. Be specific about what to look for and what conclusions you expect to draw from your observations.

Na	me: S	ection:
	QUALITATIVE ANALYSIS Re	port Sheet
Fir	nal Identifications:	
No	o. 1 No. 6	
No	o. 2 No. 7	
No	0. 3 No. 8	
No	o. 4 No. 9	
No	o. 5 No. 10	
equ sur alc	the the next few pages to write balanced MOLECU uations for TEN of the reactions that <u>occurred</u> during the to include the physical states of all the products. Tong with this report sheet to receive full credit upon contract the product of the pr	this laboratory experiment. Make hese equations must be turned in
1.	Molecular:	
	Ionic:	
	Net-ionic:	
2.	Molecular:	
	Ionic:	
	Net-ionic:	
3.	Molecular:	
	Ionic:	
	Net-ionic:	
4.	Molecular:	
	Ionic:	
	Net-ionic:	

Na	me:	Section:	
5.	Molecular:		
	Ionic:		
	Net-ionic:		
6.	Molecular:		
	Ionic:		
	Net-ionic:		
7.	Molecular:		
	Ionic:		
	Net-ionic:		
8.	Molecular:		
	Ionic:		
	Net-ionic:		
9.	Molecular:		
	Ionic:		
	Net-ionic:		
10.	Molecular:		
	Ionic:		
	Net-ionic:		