		Name		Per	Date	
	aptured Chemicals Lab					
	irpose: become familiar with th	e observation and inte	pretation of chem	ical reactions		
Go int	reLab: ood chemists are good deterpreting the data they had in the data they had in the this. Some of these	ave collected. When a	•	-		
				:		
co	this lab you will performake careful observations. nclusions as to what caus	Then, by testing and i	nterpreting your o	s (also called data, you will	chemical reactions) be able to make	and
1.	ort 1-Making Observation You will be given four disproperties of each chemi	fferent chemicals: W		ne of each che	mical, and describe	e the
	Chemical		Descriptio			
	calcium chloride CaCl ₂		2030.4500			
	sodium bicarbonate NaHCO ₃					
	Phenol red					
	Water					

- 2. Mix one spoonful of CaCl2 and one spoonful of NaHCO3 in a zip lock bag. Shake the bag. **Record** your observations.
- 3. Squeeze out as much air as possible from the zip lock and seal it 7/8 of the way closed. Squeeze one eye dropper full of phenol red and one pipet of water into the ziplock bag, and quickly seal the bag. **Record** ALL your observations.

Part 2 - Your Turn to Experiment

Now that you have made your observations, you will determine which combination of the four chemicals used in part 1 is responsible for **each** of the observations you have made in part 1. To do this you may mix any combination and ratio of chemicals as many times as you need. The zip lock bag can be rinsed and reused. Be sure to **record** all trials!

- 4. Record the following information in the data table below. Under the first column **record** the combination and ratio of chemicals you will be reacting. In the last column, **record** what you observed when conducting your experiment. Do as many trials as you need to identify which combination of chemicals is responsible for **each** observation from Part 1.
- 5. Clean off and sponge off the counter. .

Trial	CaCl ₂	NaHCO ₃	Phenol red	water	observations
1					
2					
3	· · · · · ·			- · · · ·	
4					
5					
6					
7			·*·		
8					
9					

PostLab Questions:

1.	What evidence have you	observed that indicates	that a chemical reaction	has occurred?

2. Which combination of chemicals is responsible for each of the changes you observed?