Name:	Date:
Form and Function Lab	
Introduction	
Chemistry courses are designed with many laboratory exemperiments, you must become familiar with some of the throughout the year. This lab is designed to do this.	periments. Before you can conduct any of these basic lab equipment and techniques you will be using
Procedure	
1. Sketch the Erlenmeyer flask and a Florence flask	
2. Examine an Erlenmeyer flask and a Florence flask th	en answer the following questions:
a. How can you tell them apart?	
b. Of what type of glass are they composed?	
c. What would they be used for?	
d. What role would the sloped sides play?	

Sketch flasks.		er at your desk. Ex	camine and com	pare the composi	ition and form of a be	eaker to that o
Sketch	and examine a	crucible and cover	, evaporating di	sh, and watch gla	ass.	
			and the same state of the same			
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Of w	hat material are	e the crucible and e	vaporating disn	made?		
. Coul	d vou heat mate	erials to high tempe	eratures with the	se containers? W	Vhy or why not?	
	•					
How	does the shape	of the crucible diff	fer from the evap	porating dish? W	When would it be mor	e appropriate
to us	se an evaporatin	g dish rather than a	crucible?			
Sketc	h and examine	the ring stand, wire	gauze, iron ring	, and clay triangl	le.	

	a.	How would a crucible be supported with these pieces?
	b.	How would you support a beaker?
5.	Exa	mine a Bunsen burner.
1.	Ske	ch the Bunsen burner and label the following parts: gas control, burner tube, air vent, and gas inlet.
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L.		
	b.	Using the directions below, practice lighting the Bunsen burner.
		1. Connect the burner to the gas supply with the rubber tubing.
		2. Close the air vents.
		3. Hold the striker at the top of the burner tube and turn on the gas supply. The gas supply is on when the handle is lined up with the rubber tubing.
		4. Strike the striker until the burner is lit. 3 attempts MAX!!! after 3 failed attempts allow gases to dissipate for a minute and then you may try again.
		5. Open the air vent slowly to admit more air. Stop when you get a light blue cone-shaped flame.
		6. Shut off the gas jet to turn off the Bunsen burner.

Non-luminous (vent open)	flame	
Smoky ye	low flame	
Luminous (vent close		
Having examined basic labo	ratory equipment, examine sample A and B.	
	as of A and 4 observations of B.	
•	В.	
b Place a small amount of	f A in a test tube and add 5 ml of water. Did it disso	olve? Repeat with B.
A.	В.	
A.		
	6 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	washlaria asid (UCI) Nota
Now place a small amount nat happens. Repeat with B	of A on a watch glass and add 5 drops of dilute hydr	rochione acid (HCI). Note
	В	

c. What is the difference between a luminous and a non-luminous flame? When would each be useful?