Laney College Chemistry Laboratory Rules and Safety Procedures

PERSONAL SAFETY

- 1. Safety glasses must be worn in the laboratory at all times.
- 2. Each student should learn where the fire extinguisher, eye wash fountain, shower, and first-air kit are located.
- 3. If you splash any amount of acid or base in your eyes, or on your skin, immediately wash the affected area with plenty of water. Report the accident at once to the instructor.

USE OF CHEMICALS

- 4. Read all labels carefully before taking chemicals. To avoid contamination of chemicals, do not return unused chemicals to their bottles. Instead, dispose of excess chemicals by placing them in the designated waste containers, which are located in the fume hoods.
- Organic solvents (benzene, acetone, ether, gasoline, etc.) are almost all highly flammable. Never work with organic solvents near an open flame.
- 6. Never pour water into concentrated acid. To dilute a concentrated acid, slowly add the acid to water while mixing the two. This applies especially to concentrated sulfuric acid.
- 7. Any spilled chemicals should be cleaned up immediately. If a strong acid is spilled, it can be neutralized by sprinkling sodium bicarbonate (baking soda) on it, and then it can be cleaned up.
- 8. Dispose of chemical waste in the designated containers, which are located in the fume hoods. Never place any chemicals in the sink or in the trash cans without your instructor's permission.

USE OF GLASSWARE

9. Be careful when heating glassware. Even Pyrex glassware can crack when it is heated. Material being heated in a test tube, flask, etc. may suddenly boil or react violently. Therefore, never point the mouth of a test tube at yourself or anyone else while you are

- heating the test tube or carrying out a chemical reaction inside it.
- 10. Attempting to put a piece of glass tubing through a hole in a rubber stopper can be dangerous. Glass tubing should be moistened or lubricated with glycerin if this is to be done.
- 11. Clean up broken glassware immediately, and place the pieces in the designated broken glass box. A dust pan and broom are available in the laboratory.

USE OF BALANCES

- 12. Never weigh a chemical by putting it directly on the balance pan. Chemicals should be weighed inside a pre-weighed container so that all of the chemical can be easily removed from the balance.
- 13. Never weigh an object on the balance while that object is <u>hot</u>. Allow it to cool, then weigh it.

GENERAL LABORATORY RULES

- 14. Eating, drinking, and smoking are not permitted in the laboratory.
- 15. Any accidents or injuries that occur in the laboratory should be reported to the instructor at once.
- 16. Always follow the instructions, both oral and written, that are given before or during an experiment. Do not perform any unauthorized experiments.
- 17. Do not store any equipment in your locker except what is on your locker list unless your instructor tells you to do so.

	Student Name	Drosser
	printed	Drawernumber/letter
	Chemistry Laboratory Drawer H	Equipment Checklist
	These items should be in your drawer:	
	Three (3) beakers (approx. volumes) (glass)	Glass Stirring Rod
	one 400 mL(\$10)	one viii TTTT
	one 250 mL(\$8)	Eight (8) Test Tubes
	one 150 mL(\$5)	eight
	Crucible (1) with Cover (porcelain)	Test Tube Holder
	one (\$5 crucible) one (\$10 cover)	one (\$5)
	<u>ü</u>	Test Tube Rack
	Evaporating Dish (porcelain) one (\$10)	one (\$10)
	One (1) Florence Flask	Test Tube Brush
(one 250 mL (\$10)	one (\$3)
1		Two (2) Vials of Litmus Paper one red
	Two (2) Erlenmeyer Flasks (glass)	one blue
	two 250 mL (\$5)	Watch Glass one (\$4)
	vi	
	Funnel (glass)	
	one (\$8)	Safety Goggles
	Two (2) Graduated Cylinders (glass)	one (\$10 xi
	one 10 mL (\$10)	i Clipart from ACD labs, ChemSketch ii
	one 25 mL (\$15)	http://classconnection.s3.amazonaws.com/601/flashcards/530601/jpg/p606131622 7274194.jpg iii
	Medicine Dropper	http://www.arthursclipart.org/science/science/evaporating%20dish.gif iv http://www.a-tech.com.hk/QUICKFIT/FLAT%20BOTTOM%20FLASK.jpg
	τιτούνουτο πουβροί	http://www.s-tech.com/images/categories/FL-0055.jpg
-	one	vi Clipart from ACD labs, ChemSketch vii
		hand-drawn art from Stephen Corlett
	Metal Scoop ("scoopula")	http://www.art-saloon.ru/mini/item_4848.jpg ix http://www.expertsmind.com/CMSImages/1953_physics.png
	one vii	X Clipart from ACD labs, ChemSketch
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