

Wolfson Campus
Natural Science Department
Chemical Laboratory



Student Safety Contract

April 2000



Wolfson Campus

Student Safety Contract-Chemistry Laboratory

The Chemistry Laboratory courses are designed to introduce students to the basic laboratory techniques. These techniques include methods of measurement, both direct or instrumental, and the recording and handling of data in such a way that the concepts of accuracy and precision are realized. The student will gain experience in the handling of glassware and reagent.

SAFETY PRECAUTIONS AND INSTRUCTIONS FOR LABORATORY EXPERIMENTS

Your laboratory work is the central core of your chemistry courses. The laboratory is a place for serious work. Maintain a wholesome, business like attitude at all times.

1. Safety glasses and lab apron must be worn at all times when you are in the laboratory. Sunglasses will not be allowed. The stockroom will not supply glasses, and you will be asked to leave if you do not have your own.
2. No unauthorized experiments are going to be performed.
3. Every student is responsible for cleaning his own equipment and laboratory place, and he will be graded accordingly. In addition, certain students will be designated each week to check on the condition of the laboratory in general.
4. Know the location of the first aid equipment, safety shower, eye wash fountain, fire blanket and fire extinguisher.
5. Report all accidents (no matter how minor you think they might be) to the instructor at once.
6. Consider all chemicals as dangerous unless they are known to be otherwise and consider all chemicals as corrosive or poisonous and their fumes toxic unless you know otherwise.

7. If corrosive chemicals get on the skin or eyes, the first thing to do is to wash the affected area immediately with water. Secondly, notify the laboratory instructor.
8. The laboratory is a place for experimental work, not for socializing. Therefore you should do your work quietly. All visitations and unnecessary conversations violate the rules of correct laboratory procedure and are not to be carried on within the laboratory. Any and all pertinent questions should be directed at the instructor only.
9. Never taste anything. Never smell directly the source of a vapor, but by means of your cupped hand bring a small sample of the vapor to your nose.
10. Shoes must be worn at all times. For your protection, it is suggested that these be closed shoes (i.e. not sandals, etc.).
11. For the protection of people who do not look where they are going, please keep all drawers closed when not in actual use.
12. Do not leave unnecessary objects (books, clothing, etc.) on the laboratory bench while working in the laboratory.
13. Do not sit on the laboratory bench.
14. Always incline a test tube in which a liquid is being heated away from yourself and your neighbors.
15. Do not look directly into the test tube.
16. Reagent bottles on the center table or from under the hoods should not be carried to your laboratory place. Bring your own clean container (beaker, graduated cylinder, etc.). To the reagent bottle and obtain the amount needed.
17. Read the label twice before taking anything from a bottle.
18. When taking a reagent from a bottle, use only the scoop or dropper provided or pour directly from the bottle.

19. Do not place a scoop or dropper from one bottle into another.
20. Rinse the outside of the bottle if any reagent has spilled on it.
21. Try to take only the amount of reagent called for. If you take more than is necessary, either give the excess to someone else or dispose of it in the proper waste container.

NEVER RETURN UNUSED REAGENTS TO THE ORIGINAL BOTTLE.

22. Throw all solids to be discarded into the waste crocks. Waste paper belongs in the waste paper basket. Never throw matches, litmus paper or any solid, insoluble chemicals into the sink. Liquids are emptied into the sinks and washed down with water because acids, and salts of Cu, Ag, Hg, are corrosive to plumbing particularly if it is made of lead.
23. Do not weigh chemicals directly on the balance pan. Use special weighing paper or the proper container such as a beaker, or watch glass. Be sure to leave the balance clean and with all weights on zero.
24. The proper use for paper towels is for drying. Some of the improper uses are for weighing, recording data and lighting Bunsen burners as well as many others.
25. Read the assignment before coming to the laboratory. "Cook Book" following of instructions during the laboratory period will result in deductions from the grade.
26. Record your result on the data page. Data should be entered as you perform the experiment.
27. Always use dilute acids and bases unless directed to do otherwise.
FOUR ACIDS INTO WATER.
28. Keep your working area neat. Clean, and dry at all times.
29. Flammable solvents of boiling points less than 100^o should be distilled,

heated, or evaporated on the steam bath, not over a bunsen burner. This includes methanol, ethanol, acetone, benzene, petroleum ether, ligroin, etc.

30. Flammable solvents should be contained in flasks rather than in open beakers.
31. Keep flasks containing flammable solvents away from your own bunsen burner and your neighbor's bunsen burner.
32. Flammable solvents should be stored in the proper cabinet or explosion proof refrigerator.
33. Keep Sodium away from water.



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STUDENT SAFETY CONTRACT

Lab Section: _____

I will:

1. Follow all instructions given by the Instructor.
2. Wear Safety Glasses and Lab Apron at all times while in the laboratory.
3. Carry out good housekeeping practices.
4. Know the location of first aid and fire fighting equipment.
5. Conduct myself in a responsible manner at all times in the laboratory situation.

I, _____, agree to abide by the safety regulations set forth above and included in the class handouts. Further, I agree to abide by any additional printed or verbal instructions given during each laboratory class.

Signature

Date