

The Laboratory Program

Purpose of Laboratory Activities:

1. To acquaint you with lab apparatus, experimental techniques and properties of chemical substances.
2. To learn safe handling techniques for chemicals.
3. To explore the practical applications of scientific theory related to course material.

Safety Rules:

1. Tie back long hair.
2. Wear safety glasses *at all times*.
3. Perform only those experiments which you are authorized to do.
4. Report all accidents and breakage immediately.
5. Deposit broken glass in the special receptacle, not in with the regular garbage.
6. Read labels twice before dispensing chemicals.
7. If you are splashed with a chemical, wash the area with lots of running water.
8. Never taste chemicals unless instructed to do so.
9. To smell a chemical, waft the vapours towards your nose. Never inhale them directly!
10. Never return unused chemicals to the original container. This could cause contamination.
11. Be certain that scoops and spoons are clean before using them to dispense chemicals. Do not leave these scoops in the chemical bottle.
12. Take only the amount of chemical required. Most chemicals are **expensive**.
13. Put the lid/cap/stopper on all bottles and flasks so that chemicals are neither spilled nor contaminated.
14. When heating material in a test tube, keep the tube in constant motion and DO NOT point the mouth of the tube at anyone. Always hold the test tube at an angle and heat the sides of the tube as well as the bottom.
15. Clean the sink and desk at the end of every lab period.
16. Wash your hands at the end of experiments.