

Chemistry Laboratory Safety Agreement

The chemistry student's personal safety and that of others demands care in following all regulations and procedures. Each student is expected to operate in the laboratory in a safe manner at all times and is responsible for understanding the following rules. **If necessary, students will be removed from the laboratory area by the teacher if and when:**

- 1) Their personal appearance or dress is such that they can cause an injury to themselves or other students.
- 2) They are behaving in such a manner that they are placing themselves or other students at risk of injury.
- 3) They are not following the lab **safety rules** (see below).
- 4) They are going beyond the limits of science activity into areas that may lead to an unsafe situation.
- 5) They have not completed the pre-experiment activities that will allow them to work safely in the laboratory.

Rules of conduct for Laboratory Exercises

1. Always maintain a businesslike attitude.
2. Do not engage in practical jokes.
3. Loud talking and excessive discussion of matters unrelated to the experiment is unwise.
4. Dispose of chemicals as indicated by the instructor.
5. Never return excess chemicals to the bottle that you got them from. Ask the teacher what to do with them when finished.
6. Use only the amount of each chemical called for in the experiment.
7. Wash your hands thoroughly after each laboratory period.
8. Always leave your workbench clean and dry.
9. Be sure the gas and water outlets are turned off completely after use.
10. Any time you do not understand directions, ask instructor for help.
11. Know where the fire extinguisher is and how to use it.
12. Know the location of the eyewash and how to use it.
13. Know the location of the fire blanket and how to use it.
14. **Always wear eye protection (goggles) when doing an experiment.**
15. **Never wear contact lenses** in the laboratory. There is a distinct possibility that chemicals may infuse under the contact and cause irreparable eye damage.
16. Perform only the experiments in the laboratory manual or ones that have been approved by your instructor.
17. Never taste chemicals.
18. Never leave flames unattended.
19. Never use a flammable liquid near an open flame.
20. Never pour a flammable liquid into the sink.
21. **Notify your instructor of an accident, no matter how minor it may seem.**
22. Check the label and double check the label on all reagent bottles before using.

23. If spillage of an acid or base occurs, flood the area with water and notify your instructor immediately.
24. When diluting acids, ALWAYS pour the acid into the water. REMEMBER: A to W
25. When heating the contents of a test tube, keep it tilted and moving in the flame with the mouth pointed AWAY from yourself and all other persons.
26. Do not wear long, loose sleeves in the laboratory.
27. If you have long hair, you must tie it back with a rubber band or ribbon while working in the laboratory.
28. Never drink from the laboratory glassware and never pipette by mouth.
29. Never eat or drink in the laboratory.
30. Know the exit locations in the laboratory.
31. Examine equipment for cracks and other hazards before starting and experiment.
32. Know safety limits and hazardous properties of chemicals to be used before beginning.
33. Follow directions **very** carefully.
34. Consider every chemical as poison and protect yourself accordingly.
35. Never mix chemicals together unless the instructor or the experiment has indicated you should do so.
36. Handle glass carefully to avoid possible sharp edges.

*****Hot glassware looks the same as cool glassware. Always be sure to check if glassware is hot before touching or moving it. Test the temperature of apparatus by holding the back of hand close and feeling for heat before grasping. Use beaker tongs to handle hot beakers.***

37. Never leave anything unattended while it is being heated or is reacting violently.
38. Be very cautious when testing for odors. (Waft!)
39. Concentrate at all times on what you are doing.
40. Do not do anything that would put you or another member of the class in a position of danger.