

Student Safety Contract by Frey Scientific

21. Laboratory aprons reduce exposure to chemical splashes and should be worn whenever chemicals are involved, just as is the case for chemical splash safety goggles.
22. Students should immediately report **ANY** seemingly unsafe condition or accident to the teacher. Again, it's better to be safe than sorry.
23. If a chemical should splash on your face, skin or eye(s), **IMMEDIATELY** flush the exposed area with running water continuously (for minimum of 15 minutes) until emergency help arrives. You may need to assist your partner to the eyewash/safety shower and notify the teacher. If you assist a classmate, be certain to thoroughly clean yourself with soap and water after assisting. The teacher should also notify the administration of the accident.
24. Spirit-filled (alcohol with food coloring) thermometers should be used in middle and high school laboratories. They are generally accurate enough for typical experiments and do not pose the hazard of exposure to mercury in the event of breakage of mercury-filled thermometer. Dispose of mercury-filled thermometers properly. Contact your local solid waste district for assistance and local regulations.
25. When obtaining samples of chemicals, always double check the label for accuracy, measure only the amount needed and do not return unused portions to their original containers. Ask your teacher for directions on what to do with leftover samples.
26. Use rubber bulbs or other devices to pipette substances. **Never pipette by mouth.**
27. Only teachers should handle concentrated acids. When students dilute moderately concentrated solutions, remember to follow this method: **ALWAYS ADD ACID TO WATER (A TO W)**. The acid should be gently swirled as it is gradually added to the water.
28. To reduce potential hazards and confusion, only chemicals necessary for the current laboratory experiment should be available for student use. When carrying chemicals to their workstations students must carefully support containers. Students should never transport chemicals from the laboratory.
29. When heating with an open flame such as with an alcohol or Bunsen burner, follow your teacher's instructions on lighting and use caution. Never reach over an open flame and secure loose articles and hair, which could fall into the flame. Never use flammable substances near open flames or heat sources.
30. Do not place anything in burner flames unless instructed to do so by the teacher and always turn the heat source off when finished. Treat hot-plates and burners as if they are hot. Test for heat by placing the back of your hand near, but not touching a heat source. Tongs or heat resistant gloves should be used to handle hot items. **Caution: Cool and hot glassware cannot be distinguished by sight alone.**
31. When heating test tubes of liquids, always point the open end away from yourself and others. Your teacher should demonstrate proper technique. Never set hot glassware directly on lab tables; instead allow hot items to cool on an insulated pad.
32. If glassware is broken, **NEVER** handle the broken pieces with your bare hands. It is much more effective to use a broom and dustpan to collect the pieces. Dispose of broken glassware in a durable, properly marked container to prevent injury to unsuspecting custodial workers. Broken or chipped glassware should be discarded, not used.
33. To avoid breaking, never immerse hot glassware in cold water. Properly clean glassware when finished using it.
34. If glass tubing must be inserted into or removed from rubber stoppers with holes, the teacher should prepare these items and demonstrate the proper technique. This includes protection of hands, lubrication of the glass and rubber stopper and avoidance of excess pressure.
35. Never touch electrical devices with wet hands and remove plugs by grasping the plug, not the cord. Report any frayed cords or other evidence of equipment damage.

I have read and understand the safety rules included in this safety contract. Furthermore, I agree to obey these rules to ensure my safety and that of my classmates and teacher. I understand that my failure to follow these rules may result in being immediately removed from the lab, earning a failing grade for the assignment, detention, and/or even removal from the class, as determined by the teacher and/or administration.

(Student's Signature)

(Date)

In support of the safety of my dependent, my signature indicates that I have read and understand the rules and possible consequences outlined in this safety contract. I will instruct my son/daughter to follow through with his/her agreement and obey these rules.

(Parent/Guardian's Signature)

(Date)

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