

Student Safety Contract

PURPOSE

Science is a hands-on laboratory class. You will be doing many activities, some which require chemicals. Safety in the science classroom is the #1 priority for students, teachers, and parents. To ensure a safe science classroom, a list of rules has been developed. **These rules must be followed at all times.** The contract must be signed by students and parent/guardian before participation any lab.

GENERAL RULES

1. Conduct yourself in a responsible manner at all times in the laboratory.
2. **Follow all written and verbal instructions carefully.** If you do not understand a direction or part of a procedure, ask the instructor before proceeding.
3. Never work alone. No student may work in the laboratory without an instructor present.
4. When first entering a science room, do not touch any equipment, chemicals, or other materials in the laboratory area until you are instructed to do so.
5. Do not eat food or drink beverages in the laboratory. Do not use laboratory glassware as containers for food or beverages.
6. Perform only those experiments authorized.
7. Be prepared for your work in the laboratory. Read all procedures thoroughly before starting the laboratory experiment.
8. **Never fool around in the laboratory.** Horseplay, practical jokes, and pranks are dangerous and prohibited.
9. Observe good housekeeping practices. Work areas should be kept clean and tidy at all times. Bring only your laboratory instructions, worksheets, and/or reports to the work area. Other materials (books, purses, backpacks, etc.) should be stored under your chairs or in the classroom area.
10. Keep aisles clear. Push your chair under the desk or table.
11. Know the locations and operating procedures of all safety equipment including the first aid kit, eyewash station, safety shower, fire extinguisher, and fire blanket.
12. Be alert and proceed with caution at all times in the laboratory. Notify the instructor immediately of any unsafe conditions you observe.
13. Dispose of all chemical waste properly. Never mix chemicals in sink drains. Sinks are to be used only for water and those solutions designated by the instructor. Solid chemicals, metals, matches, filter paper, and all other insoluble materials are to be disposed of in the proper waste containers, not in the sink.
14. Labels and equipment instructions must be read carefully before use.
15. Keep hands away from face, eyes, mouth and body while using chemicals or preserved specimens. **Wash your hands with soap and water after performing all experiments.** Clean all work surfaces and apparatus at the end of the experiment. Return all equipment clean and in working order to the proper storage area.
16. Experiments must be personally monitored at all times. You will be assigned a laboratory station at which to work. Do not wander around the room, distract other students, or interfere with the laboratory experiments of others.
17. Students are never permitted in the science storage areas or preparation areas unless given permission by the instructor.
18. Know what to do if there is a fire drill during a laboratory period; containers must be closed, gas valves turned off, and any electrical equipment turned off.
19. When using knives and other sharp instruments, always carry with the tips and points pointing down and away. Always cut away from your body. Never try to catch falling sharp instruments. Grasp sharp instruments only by the handles.

CLOTHING

20. Any time chemicals, heat, or glassware are used, **students will wear laboratory goggles.** There will be no exception to this rule.
21. Dress properly during a laboratory activity. Long hair, dangling jewelry, and loose or baggy clothing are a hazard in the laboratory. Long hair must be tied back and dangling jewelry and loose or baggy clothing must be secured.
22. Wear lab aprons when instructed to do so in order to protect your clothing.
23. Avoid wearing flammable hair gel and aerosol hair spray on lab days.

ACCIDENTS AND INJURIES

24. Report any accident (spill, breakage, etc.) or injury (cut, burn, etc.) to the instructor immediately, no matter how trivial it may appear.
25. If you or your lab partner are hurt, immediately yell out "Code one, Code one" to get the instructor's attention.
26. If a chemical splashes in your eye(s) or on your skin, immediately flush with running **water** from the eyewash station or safety shower for at least 20 minutes. Notify the instructor immediately.
27. When mercury thermometers are broken, mercury must not be touched. Notify the instructor immediately.

HANDLING CHEMICALS

28. All chemicals in the laboratory are to be considered dangerous. **Do not touch, taste, or smell any chemicals unless specifically instructed to do so.** The proper technique for smelling chemical fumes will be demonstrated to you (wafting).
29. Check the label on chemical bottles twice before removing any of the contents. Take only as much chemical as you need.
30. **Never return unused chemicals to their original containers.**
31. **Never use mouth suction to fill a pipet.** Use a rubber bulb or pipet pump.

32. When transferring reagents from one container to another, hold the containers away from your body.
33. Acids must be handled with extreme care. You will be shown the proper method for diluting strong acids. **Always add acid to water**, swirl or stir the solution and be careful of the heat produced, particularly with sulfuric acid.
34. Handle flammable hazardous liquids over a pan to contain spills. Never dispense flammable liquids anywhere near an open flame or source of heat.
35. Never remove chemicals or other materials from the laboratory area.
36. Take great care when transporting acids and other chemicals from one part of the laboratory to another. Hold them securely and walk carefully.

HANDLING GLASSWARE AND EQUIPMENT

37. Carry glass tubing, especially long pieces, in a vertical position to minimize the likelihood of breakage and injury.
38. **Never handle broken glass with your bare hands.** Use a brush and dustpan to clean up broken glass. Place broken or waste glassware in the designated glass disposal container.
39. Examine glassware before each use. Never use chipped or cracked glassware. Never use dirty glassware.
40. Do not immerse hot glassware in cold water; it may shatter.
41. When removing an electrical plug from its socket, grasp the plug, not the electrical cord. Hands must be completely dry before touching an electrical switch, plug, or outlet.
42. Report damaged electrical equipment immediately. Look for things such as frayed cords, exposed wires, and loose connections. Do not use damaged electrical equipment.
43. **If you do not understand how to use a piece of equipment, ask the instructor for help.**

HEATING SUBSTANCES

44. Exercise extreme caution when using a gas burner. Take care that hair, clothing, and hands are a safe distance from the flame at all times. Do not put any substance into the flame unless specifically instructed to do so. Never reach over an exposed flame. Light gas burners only as instructed by the teacher.
45. **Never leave a lit burner unattended.** Never leave anything that is being heated or is visibly reacting unattended. Always turn the burner or hot plate off when not in use.
46. You will be instructed in the proper method of heating and boiling liquids in test tubes. Do not point the open end of a test tube being heated at yourself or anyone else.
47. Heated metals and glass remain very hot for a long time. They should be set aside to cool and picked up with caution. Use tongs or heat-protective gloves if necessary.
48. **Never look into a container that is being heated.**
49. Do not place hot apparatus directly on the laboratory desk. Always use an insulating pad. Allow plenty of time for hot apparatus to cool before touching it.

QUESTIONS

50. Do you wear contact lenses?
 YES NO
51. Are you color blind?
 YES NO
52. Do you have allergies?
 YES NO

If so, list specific allergies:

Safety Contract Agreement

STUDENT

I, _____
 (Student's name) have read and agree to follow all of the safety rules set forth in this contract. I realize that I must obey these rules to insure my own safety, and that of my fellow students and instructors. I will cooperate to the fullest extent with Miss Wiggin and fellow students to maintain a safe lab environment. I will also closely follow the oral and written instructions provided by the instructor. I am aware that any violation of this safety contract that results in unsafe conduct in the laboratory or misbehavior on my part, may result in being removed from the laboratory, detention, and/or receiving a failing grade.

 Student signature

 Date

PARENT OR GUARDIAN

Dear Parent or Guardian:
 We feel that you should be informed regarding the school's effort to create and maintain a safe science classroom/laboratory environment. With the cooperation of the instructors, parents, and students, a safety instruction program can eliminate, prevent, and correct possible hazards. You should be aware of the safety instructions your son/daughter will receive before engaging in any laboratory work. Please read the list of safety rules above. No student will be permitted to perform laboratory activities unless this contract is signed by both the student and parent/guardian and is on file with the teacher. Your signature on this contract indicates that you have read this Student Safety Contract, are aware of the measures taken to insure the safety of your son/daughter in the science laboratory, and will instruct your son/daughter to uphold his/her agreement to follow these rules and procedure in the laboratory.

 Parent/Guardian Signature

 Date