

















Laboratory Safety Contract

We will be making numerous observations and measurements in our science laboratory this year. Almost all labs require some kind of laboratory equipment, materials, or chemicals. The laboratory can be an enjoyable, exciting, and safe place to work, however, some of the equipment and materials can be dangerous if not handled with maturity and respect. You must assume some responsibility for the safety of yourself, your colleagues, your teacher, and your school. Please read and learn the safety rules below to help guide you and protect you and others from injury. Whatever you do, do it all to the glory of God.

Safety Rules

1. The science laboratory is a place for serious work.
2. Do not perform experiments without your teacher's permission.
3. Follow all instructions carefully. Use special care when you see or hear the word **CAUTION!**
4. Know how to use the safety equipment provided for you. Know the locations of the fire extinguisher, safety shower, eye wash, fire blanket, and first aid kit and when it is appropriate to use this equipment.
5. **NEVER** touch any equipment, chemicals, or other materials when you enter the science rooms, until you are so instructed. This includes things that may be set up on the teacher's front desk.
6. **NEVER** eat, drink, chew gum, or have candy in the lab area.
7. **NEVER** run, push, throw objects, or engage in horseplay of any kind in the lab area.
8. Use the equipment only as directed. Do not attempt to use equipment in unauthorized ways or perform unauthorized experiments.
9. Always return equipment, clean and dry, to where you found it. Dispose of materials as your teacher instructs you.
10. Keep your work area clean and uncluttered. Leave the lab cleaner than you found it.
11. Always wash your hands with soap and water after every lab session, no matter what materials were used.
12. Report all accidents, injuries, or incorrect procedures to your teacher immediately!
13. Dress properly for lab time:
 - a. Tie back long hair. Don't wear loose-fitting sleeves, scarves, ties, or bulky outerwear.
 - b. **ALWAYS** wear safety goggles when using glassware, chemicals, hot liquids, or burners, and when instructed to do so by your teacher.
 - c. Lab aprons are available when desired, and when using chemicals and hot materials.
14. Be careful when using heat or fire:
 - a. Never leave a hot plate, flame, or other hot object unattended.
 - b. Never reach over an exposed flame (remember, the light blue gas flames are not easily seen).
 - c. Use caution and the proper equipment, such as tongs or pot holders, to handle hot glassware and lab equipment. Hot glass looks the same as cool glass.
 - d. Use only Pyrex glassware for heating.
 - e. Never point the mouth of a test tube towards anybody, including yourself, at any time.

15. Use care when working with chemicals:
 - a. **NEVER** taste or touch substances in the lab area without specific instructions. **Never** draw materials into a pipet with your mouth.
 - b. **NEVER** smell substances without specific instructions. Never directly inhale fumes; always waft.
 - c. Report all chemical spills, including broken thermometers, to your teacher immediately!
 - d. Handle toxic or combustible gases and materials away from open flames; Use the fume hood as appropriate and under the direction of your teacher.
16. Use special care when working with lab equipment:
 - a. Don't use chipped or cracked glassware, or broken scalpels. Don't pick up broken glass with bare hands.
 - b. Always use two hands when carrying equipment such as microscopes, balances, hot plates, etc.
 - c. Never use force to get something to work. If the equipment is malfunctioning, contact your teacher.
 - d. Never take equipment apart. Precision equipment can be ruined with tampering.
 - e. Never insert any object except power cords into the electrical outlets.
 - f. Use special care when working with sharp objects, such as scalpels and probes.
17. For Biology students, be extra careful when working in the greenhouse and the outdoor classroom:
 - a. All rules of the lab area apply to the greenhouse / outdoor classroom as well.
 - b. Do not disturb the animals with unnecessary teasing or taunting.
 - c. Respect other people's projects and experiments by never touching or holding plants and animals without authorization.
 - d. Never enter the greenhouse without permission.
 - e. If doing work in the greenhouse, always clean up after yourself.
18. For Biology students, when doing labs involving dissections:
 - a. Always respect the opportunity God has given you by treating the specimens with dignity, handling them in a humane manner.
 - b. Never add unnecessary exercises to the dissection process.
 - c. All parts and pieces of a specimen are to remain in the lab area!
 - d. When using the dissection kit tools, always hold sharp edges and points down and away from your body. Always cut away from your body. Never try to catch sharp falling objects. Grasp sharp instruments by their handles.
 - e. Dispose of dissected materials according to your teacher's directions.
19. All students: be familiar with the safety symbols shown below.
20. All persons reading this contract: prove to me that the person (including parents) reading this has indeed read this entire contract, and not skipped any part of it, by printing their initials in the top right hand corner of *this* page. This includes student and parent!

 <p>DISPOSAL ALERT This symbol appears when care must be taken to dispose of materials properly.</p>	 <p>SHARP OBJECT SAFETY This symbol appears when a danger of cuts or punctures caused by the use of sharp objects exists.</p>	 <p>EXPLOSION SAFETY This symbol appears when the misuse of chemicals could cause an explosion.</p>	 <p>ANIMAL SAFETY This symbol appears whenever live animals are studied and the safety of the animals and the students must be ensured.</p>
 <p>BIOLOGICAL HAZARD This symbol appears when there is danger involving bacteria, fungi, or protists.</p>	 <p>FUME SAFETY This symbol appears when chemicals or chemical reactions could cause dangerous fumes.</p>	 <p>EYE SAFETY This symbol appears when a danger to the eyes exists. Safety goggles should be worn when this symbol appears.</p>	 <p>RADIOACTIVE SAFETY This symbol appears when radioactive materials are used.</p>
 <p>OPEN FLAME ALERT This symbol appears when use of an open flame could cause a fire or an explosion.</p>	 <p>ELECTRICAL SAFETY This symbol appears when care should be taken when using electrical equipment.</p>	 <p>POISON SAFETY This symbol appears when poisonous substances are used.</p>	 <p>CLOTHING PROTECTION SAFETY This symbol appears when substances used could stain or burn clothing.</p>
 <p>THERMAL SAFETY This symbol appears as a reminder to use caution when handling hot objects.</p>	 <p>PLANT SAFETY This symbol appears when poisonous plants or plants with thorns are handled.</p>	 <p>CHEMICAL SAFETY This symbol appears when chemicals used can cause burns or are poisonous if absorbed through the skin.</p>	 <p>FIRE SAFETY This symbol appears when care should be taken around open flames.</p>

Below is a Student Safety Contract. First, please read the Safety Contract in its entirety. Then, check the appropriate lines that you will perform. Print your name in the first blank, then fill in the date and sign it. Give it to your parents to date and sign it as well.

- I will
- Follow all of Mr. Schulz's Instructions.
 - Protect eyes, face, hands, and body while in the lab area.
 - Carry out good housekeeping practices, i.e. clean up after myself.
 - Know the location of safety and first aid equipment.
 - Glorify my Lord by conducting myself in a responsible Christian manner at all times in the lab.

I, _____, have read the entire contract and agree to abide by the safety regulations as set forth above and also any additional printed instructions provided by my teacher, Mr. Schulz. I further agree to follow all other written and oral instructions given in class.

Date

Student Signature

Parents: Your signature on this contract indicates that you have read this entire student contract, are aware of the measures taken to ensure 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 procedures in the lab.

Date

Parent Signature

NO Signed Contract, NO lab, 0 for a grade, see you next year again!