

# PHYSICAL SCIENCE SAFETY CONTRACT

NAME \_\_\_\_\_ DATE \_\_\_\_\_

## SAFETY FIRST

### SAFETY RULES FOR EACH SCIENCE STUDENT

**SAFETY GOAL:-** “A laboratory is as safe as the least safe person. It is the responsibility of each student to avoid accidents. Most accidents can be prevented before they occur by having the correct attitude toward lab work and following the instructions given in this safety contract.”

#### **Before starting an experiment, make sure that you:**

1. Read all directions for the experiment enough times to know what you are doing. If in doubt about any part of the experiment, ask the teacher.
2. Wear safety glasses/goggles when using any chemical (especially acids) or heating with an alcohol burner.
3. Know the location, type, and use of the fire extinguisher, fire blanket, first aid kit and eyewash station.
4. Wear proper footwear at all times. NO sandals or flip flops when using burners or corrosives.
5. Never bring food into the science class.
6. Remove coats, loose sweaters and jewelry, and roll up long sleeves.
7. Tie back long hair with a hair tie.

#### **Student behavior**

8. Report to the teacher immediately any personal injury no matter how trivial it may seem.
9. Maintain quiet behavior during class. Talking while the teacher is going over procedures will be treated very seriously and you'll probably miss something that was said.
10. Stay at your table or assigned location during the experiment except to obtain materials.
11. Science tables are not seats. Do not sit or stand on them.
12. Never attempt unauthorized experiments. No laboratory work may be carried on without the teacher's permission.

#### **Student responsibilities for equipment**

13. Immediately report to the teacher any hazardous conditions of equipment or materials like chipped or cracked glassware.
14. Treat any test tube like a loaded gun. Angle the mouth of the test tube away from everyone.
15. Never heat a liquid in a closed container. The expanding gases produced, may blow the container apart, injuring you or others.
16. When heating liquids in test tubes or flasks, always add boiling chips to control the rate of boiling.
17. Turn off the water and blow out the burner when they are not in use. Recap burners.
18. Never put anything hot or wet on the massing pan of the balance. Protect the balance beam from slamming down.
19. When you break glassware, report it to the teacher. Dispose of broken glassware into the appropriate container. You must pay for broken glassware when due to carelessness.
20. Laboratory aprons should be worn when working with any corrosive chemical or ink.
21. Never handle any equipment unless you have specific permission.
22. Never heat any chemical that you are not instructed to heat. A chemical that is harmless when cool can be dangerous when heated.
23. Always maintain a clean work area and keep all materials away from flames.
24. Never reach across a flame.
25. Never pick up equipment that has been heated without first holding the back of your hand over it. If you

can feel heat on the back of your hand, the object may be too hot to handle. Always use a clamp, tongs, or "Hot Hands" mitt when handling hot objects.

26. Never heat glassware that is not thoroughly dry. Use a wire screened burner stand to protect flasks and beakers from direct contact with a burner flame.

27. Never eat or drink from laboratory glassware. Always thoroughly clean any glassware when done.

28. Never readjust glass tubing or a thermometer that is in a rubber stopper. If it needs to be repositioned, notify your teacher to do it.

29. When an experiment is completed, always clean up your work area and return all equipment to its proper place.

### **Student responsibilities for chemicals**

30. Never taste chemicals.

31. Replace caps on bottles or jars immediately after use.

32. Do not take dispensing bottles from the dispensing table.

33. When instructed to test for the odor of a chemical, hold the sample away from you and gently fan/waft a small amount of the vapor toward your nose with your hand.

34. Never mix chemicals for the "fun of it". You might produce a dangerous, possibly explosive reaction/substance.

35. Be extra careful when working with acids or bases. Pour such chemicals over the sink, not over your table.

36. When diluting an acid, always pour the acid into water. NEVER pour water into acid.

37. Rinse any acids/bases off your skin or clothing with cold water. Immediately notify your teacher of any acid spill.

## **SAFETY CONTRACT**

### **End of experiment rules**

38. Wash your hands after handling chemicals.

39. Blow out any burners and recap them.

40. Dispose of chemicals as directed by your teacher.

41. Remove all papers and non-chemical solids from your lab table area and place them in the trash can.

42. Flush sink with water thoroughly.

43. Wash and dry the lab table top.

44. Return the safety glasses/goggles to the proper place.

I, \_\_\_\_\_, have read and agree to follow the safety guidelines set forth above and also any additional instructions provided by the teacher. I promise to conduct myself in a responsible manner at all times when doing laboratory work. If I do not follow these safety guidelines, I agree to accept the consequences from the teacher and principal which means being prohibited from laboratory work for a period of one week or longer. During the time that I am not doing lab work, I will only observe what other students are doing and I will do written work to obtain a grade for the work that I am missing.

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Parent Signature

To View Images of Lab Equipment, Click [Here](#)