

Student Safety Contract

The following contract must be signed by each student and a parent or guardian before participating in laboratory activities.

I have read Chemistry Safety Rules and agree to abide by them. Specifically, I will:

- behave responsibly in the laboratory;
- follow all written and verbal instructions;
- protect my eyes, face, hands, and body while working in the laboratory;
- know the location of appropriate safety equipment; and
- practice good housekeeping procedures.

I also agree to abide by any additional safety regulations set forth by my teacher and/or the school district. I understand that failure to abide by these rules endangers others and will result in my removal from the class.

Signature of student	date	Signature of parent or guardian	date
		Signature of parent or guardian	date
#####			

I have read the Course Outline and understand the student obligations and policies regarding late and make-up work.

Signature of student	date	Signature of parent or guardian	date
		Signature of parent or guardian	date
#####			

I have read the Discipline Plan.

Signature of student	date	Signature of parent or guardian	date
		Signature of parent or guardian	date
#####			

PLEASE SIGN ONE OF THE FOLLOWING 2 CHOICES:

1. I will be able to participate in the notebook evaluation process 4 times this year as well as 4-6 take-home labs.

Signature of student	date	Signature of parent or guardian	date
		Signature of parent or guardian	date

2. I would rather not participate in the notebook evaluation process. Please allow my child to complete an alternate assignment.

Signature of student	date	Signature of parent or guardian	date
		Signature of parent or guardian	date

**St. Marys City Schools
School Accident Report Form**

School Building _____ Date _____

Name of Injured _____ Grade _____ Student ID # _____

Address _____ Phone # _____

(1) Description of Accident

1. Time of Accident _____ AM PM Date _____

2. Description of injury or complaint as described by the injured person:

3. Observation of injury or complaint including area(s) of body involved, size, discharge, etc. as observed by teacher:

4. Where did the accident occur? (check appropriate place)

- | | | |
|-------------------------|---------------------|-------------------------|
| a. _____ athletic field | e. _____ hallway | i. _____ stairway |
| b. _____ cafeteria | f. _____ playground | j. _____ to/from school |
| c. _____ classroom | g. _____ restroom | k. _____ shop/lab |
| d. _____ gym | h. _____ school bus | l. _____ other |

(2) Notable environmental conditions

Please describe:

(3) Post-Accident Information

1. Was first aid given? _____ no _____ yes If yes, by whom and what was done?

2. Was parent or guardian notified? _____ no _____ yes If yes, by whom? _____
If no, explain:

3. Was injured sent home? ___no ___yes

4. Was injured treated by physician/hospital? _____ no _____yes

If yes, name physician/hospital _____

5. Days absent from school or work: _____

6. Tetanus immunization up to date (booster within 10 years)
_____ no _____ yes _____ uncertain

(4) Statements of Witnesses

1. List below the name and addresses of witnesses to the incident:

Name

Address

2. Attach to this form statements of witnesses.

signature of person completing form

date

Appendix D

References

Appendix D

References

Standard Number: 1910.1450AppB

* **Standard Title:** References (Non-Mandatory)

* **SubPart Number:** Z

* **SubPart Title:** Toxic and Hazardous Substances

The following references were consulted in the writing of this document.

Council of State Science Supervisors. (1984) . School science laboratories: a guide to some hazardous substances: a supplement to the National Institute for Occupational Safety and Health manual of safety and health hazards in the school science laboratory. Washington: U. S. Consumer Product Safety Commission.

Flinn, L. C. (1998). Flinn chemical catalog reference manual 2001.

Gerlovich, J. A. (Ed.). (1985). School science safety secondary . Batavia: Flinn Scientific, Inc.

Gerlovich, J. A. (1997). Safety standards an examination of what teachers know and should know about science safety . The Science Teacher, March, 1997.

Jbeily, K. (project director). (1989). Science laboratory safety and chemical waste disposal for Texas science teachers (Developed for the Texas Education Agency, Title II, Project 806-90-503-05). Arlington: University of Texas.

Kaufman, J. A. (1989, March 8). Improving laboratory safety in schools. Education Week.

Martin, D. J. (1997). Elementary science methods: a constructivist approach. Cincinnati, OH: International Thomson Publishing Company, 1997.

National science Teachers Association. (1997). Safety in the elementary science classroom. Arlington, V A: National Science Teachers Association.

Schrader, C. (program director). (1998). Hazardous waste disposal program notebook. Ohio Hazardous Waste Removal Program.

Virkus, R. N. (Ed.). (1978). Safety in the secondary science classroom. Washington: National Science Teachers Association.

Walmsley, F. (Ed.). (1988). School science safety manual. Toledo: School Science Safety Consortium of Lucas County.

West, S. S., & Pesthy, C. J. (1991). Science lab safety survey. The Science Teacher, September, 1991.

Young, J. A. (1997). Chemical Safety part I: Safety in the handling of hazardous chemicals. The Science Teacher, March, 1997.

Young, J. A. (1997). Chemical Safety part II: Tips for dealing with laboratory hazards. The Science Teacher, March, 1997

The following references are provided to assist in the development of a Chemical Hygiene Plan. The materials listed below are offered as non-mandatory guidance. References listed here do not imply specific endorsement of a book, opinion, technique, policy or a specific solution for a safety or health problem. Other references not listed here may better meet the needs of a specific laboratory. (a) Materials for the development of the Chemical Hygiene Plan:

1. American Chemical Society, Safety in Academic Chemistry Laboratories, 4th edition, 1985.
2. Fawcett, H.H. and W.S. Wood, Safety and Accident Prevention in Chemical Operations, 2nd edition, Wiley-Interscience, New York, 1982.
3. Flury, Patricia A., Environmental Health and Safety in the Hospital Laboratory, Charles C. Thomas Publisher, Springfield IL, 1978.
4. Green, Michael E. and Turk, Amos, Safety in Working with Chemicals, Macmillan Publishing Co., NY, 1978.
5. Kaufman, James A., Laboratory Safety Guidelines, Dow Chemical Co., Box 1713, Midland, MI 48640, 1977.
6. National Institutes of Health, NIH Guidelines for the Laboratory use of Chemical Carcinogens, NIH Pub. No. 81-2385, GPO, Washington, DC 20402, 1981.
7. National Research Council, Prudent Practices for Disposal of Chemicals from Laboratories, National Academy Press, Washington, DC, 1983.
8. National Research Council, Prudent Practices for Handling Hazardous Chemicals in Laboratories, National Academy Press, Washington, DC, 1981.
9. Renfrew, Malcolm, Ed., Safety in the Chemical Laboratory, Vol. IV, J. Chem. Ed., American Chemical Society, Easlton, PA, 1981.
10. Steere, Norman V., Ed., Safety in the Chemical Laboratory, J. Chem. Ed. American Chemical Society, Easlton, PA, 18042, Vol. I, 1967, Vol. II, 1971, Vol. III, 1974.
11. Steere, Norman V., Handbook of Laboratory Safety, the Chemical Rubber Company Cleveland, OH, 1971.

12. Young, Jay A., Ed., Improving Safety in the Chemical Laboratory, John Wiley & Sons, Inc. New York, 1987.

(b) Hazardous Substances Information:

1. American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical Substances and Physical Agents in the Workroom Environment with Intended Changes, 6500 Glenway Avenue, Bldg. D-7, Cincinnati, OH 45211-4438.

2. Annual Report on Carcinogens, National Toxicology Program U.S. Department of Health and Human Services, Public Health Service, U.S. Government Printing Office, Washington, DC, (latest edition).

3. Best Company, Best Safety Directory, Vols. I and II, Oldwick, N.J., 1981.

4. Bretherick, L., Handbook of Reactive Chemical Hazards, 2nd edition, Butterworths, London, 1979.

5. Bretherick, L., Hazards in the Chemical Laboratory, 3rd edition, Royal Society of Chemistry, London, 1986.

6. Code of Federal Regulations, 29 CFR part 1910 subpart Z. U.S. Govt. Printing Office, Washington, DC 20402 (latest edition).

7. IARC Monographs on the Evaluation of the Carcinogenic Risk of chemicals to Man, World Health Organization Publications Center, 49 Sheridan Avenue, Albany, New York 12210 (latest editions).

8. NIOSH/OSHA Pocket Guide to Chemical Hazards. NIOSH Pub. No. 85-114, U.S. Government Printing Office, Washington, DC, 1985 (or latest edition).

9. Occupational Health Guidelines, NIOSH/OSHA. NIOSH Pub. No. 81-123 U.S. Government Printing Office, Washington, DC, 1981.

10. Patty, F.A., Industrial Hygiene and Toxicology, John Wiley & Sons, Inc., New York, NY (Five Volumes).

11. Registry of Toxic Effects of Chemical Substances, U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, Revised Annually, for sale from Superintendent of documents US. Govt. Printing Office, Washington, DC 20402.

12. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company Inc. Rahway, N.J., 1976 (or latest edition).

13. Sax, N.I. Dangerous Properties of Industrial Materials, 5th edition, Van Nostrand Reinhold, NY., 1979.

14. Sittig, Marshall, Handbook of Toxic and Hazardous Chemicals, Noyes Publications. Park Ridge, NJ, 1981.

(c) Information on Ventilation:

1. American Conference of Governmental Industrial Hygienists Industrial Ventilation (latest edition), 6500 Glenway Avenue, Bldg. D-7, Cincinnati, Ohio 45211-4438.

2. American National Standards Institute, Inc. American National Standards Fundamentals Governing the Design and Operation of Local Exhaust Systems ANSI Z 9.2-1979 American National Standards Institute, N.Y. 1979.

3. Imad, A.P. and Watson, C.L. Ventilation Index: An Easy Way to Decide about Hazardous Liquids, Professional Safety pp 15-18, April 1980.

4. National Fire Protection Association, Fire Protection for Laboratories Using Chemicals NFPA-45, 1982.

Safety Standard for Laboratories in Health Related Institutions, NFPA, 56c, 1980.

Fire Protection Guide on Hazardous Materials, 7th edition, 1978.

National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

5. Scientific Apparatus Makers Association (SAMA), Standard for Laboratory Fume Hoods, SAMA LF7-1980, 1101 16th Street, NW., Washington, DC 20036.

(d) Information on Availability of Referenced Material:

1. American National Standards Institute (ANSI), 1430 Broadway, New York, NY 10018.

2. American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103.

[55 FR 3327, Jan. 31, 1990; 57 FR 29204, July 1, 1992; 61 FR 5507, Feb. 13, 1996]