

Lab Safety

Holy Spirit High School
CBS, NL

Adapted from:
Emily Rowland of University of Mississippi

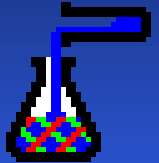


Why is Lab Safety Important?

- Lab safety is a major aspect of every lab based science class.
- Lab safety rules and symbols are needed so that students do not injure themselves or their classmates.

Lab Safety Rules

1. Always follow the teacher's directions and only do lab work when a teacher is present.
2. Conduct yourself in a responsible manner at all times. No Horseplay!
3. Do not touch any equipment, chemicals, or other materials until told to do so.
4. Do not eat food, drink beverages, or chew gum in the lab. Do not use lab glassware as food or beverage containers
5. Report ALL accidents to your teacher immediately, even if you think it is minor.



Clothing used when using chemicals

Wear :

- Goggles/safety glasses
- Closed-toed shoes
- Lab Coats
- Tie back long hair

Do NOT Wear:

- Sandals
- Jewelry
- Loose or Baggy clothing

Lab Safety Equipment

Safety Shower



Eye Wash



Safety Goggles



Lab Safety Equipment

Fire

Extinguisher



Fire Blanket



Fume Hood



Chemical Hazards and Symbols

- Flammable



- Irritant



- Explosive



- Corrosive



- Toxic/Poison



- Environmental



Chemical Hazard Symbols and Definitions



- Flammable – Any substance that will burn if exposed to an open flame.



- Explosive – A substance that may explode if exposed to heat or flame.

Chemical Hazard Symbols and Definitions



- Toxic/Poison – A substance that can lead to death if inhaled, ingested, or absorbed by the skin.



- Corrosive – A substance that can destroy or burn living tissue and can eat away at other materials.

Chemical Hazard Symbols and Definitions



- Irritant - A substance that causes inflammation upon contact with skin or mucous membranes.



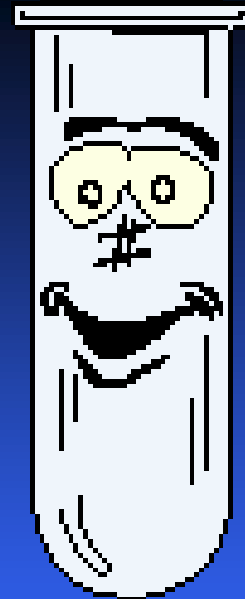
- Environmental - Substances that are harmful to the environment. They must be disposed of properly, not washed down the drain.

Accidents and Injuries

- Report ALL accidents and injuries to your teacher immediately!!!
- Be aware of safety hazards associated with each chemical you use.
- Eye accident – Wash the eye with copious amounts of water for at least 15 min.
- Fire Burns – Stop, Drop, and be covered with a fire blanket or soaked with water. Do not remove clothing stuck to victim. Get medical attention immediately.

Waste Disposal

- First ask your teacher where/how to dispose of waste.
- Never pour anything down the drain unless you are told to do so.
- A waste bottle will be supplied for substance that cannot go down the drain



Reasons for proper waste disposal

- Hazardous chemicals down the drain can lead to pollution of ground water, lakes, rivers, etc.
- Plants and animals will die if they are exposed to hazardous chemical waste.
- Serious health problems will become present in people if hazardous waste finds its way into drinking water.

Check List

- This clarifies that I have been instructed lab rules and the use of:
- Protective clothing
- Eye protection and eye wash device
- Fire safety, Extinguisher & Safety Blanket
- First Aid, MSDS and Waste Disposal

As a student I will abide by these rules and guidelines and follow instructions given by the teacher while in the laboratory and conduct myself in a responsible manner. Failure to do so will result in expulsion from the laboratory.

Student and Parent Statements

As a student I will abide by these rules and guidelines and follow instructions given by the teacher while in the laboratory and conduct myself in a responsible manner. Failure to do so will result in expulsion from the laboratory.

As a Parent/Guardian I consent for the child I care to engage in laboratory activities using the equipment and materials including those described in the above check list. I pledge my cooperation in urging that hr/she will observe the safety regulations described.