

Safety In the Hydroponics Lab

Rules, Symbols and Common Sense





Safety First

- Hydroponics is a hands-on laboratory class.
- You will be doing many laboratory activities, which require the use of hazardous chemicals and extremely expensive lab equipment.
- Safety in the hydroponics lab is the #1 priority.
- Rules must be followed at all times.
- A signed lab safety contract is required to participate in labs.



+ General Safety Guidelines

- Be Responsible at All Times. No horseplay, practical jokes, pranks, etc.
- Follow all instructions carefully.
- Do not play with lab equipment until instructed to do so.
- Food, drink, and gum are not allowed in the hydroponics lab.

Lab Safety: Everyone Is Responsible!



General Safety Guidelines

- Keep the hydroponics lab clean and organized.
- Notify the teacher immediately of any accidents or unsafe conditions in the lab!
- Wash your hands with soap and water after lab work.

Lab Safety: Everyone Is Responsible!

Safety



Eye Protection



- Wear safety goggles when working with chemicals.
- If a chemical gets in your eye, flush in water for 15 minutes and notify the teacher.
- Wear sunglasses to prevent eye damage

Sharp Objects



- When using knives or other sharp objects always walk with the points facing down.
- Cut away from fingers and body.

Electrical Safety



- Do not place a cord where someone can trip over it.
- Never use electricity around water.
- Ensure all plugs are properly plugged in

Safety

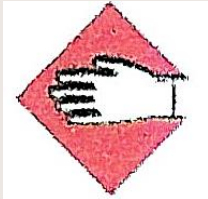


Chemical Safety



- Read all labels twice before removing a chemical from the container.
- Only handle chemicals that you are instructed to handle.
- Never touch, taste, or smell a chemical unless instructed by the teacher.
- Transfer chemicals carefully!

Hand Safety



- If a chemical spills on your skin, notify the teacher and rinse with water for 15 minutes.
- Carry buckets carefully. Never use the handle.

Plant Safety



- Do not eat any plants in lab - unless directed.
- Wash your hands after handling plants.



Safety Equipment



- Fire Blanket – Located in back of classroom in the red container
- Fire Extinguisher – Located in outside classroom door and in the computer lab

To operate the fire extinguisher remember **P-A-S-S**

P- Pull the Pin

A-Aim the hose at the base of the fire from 5-6 feet away.

S-Squeeze the handle.

S-Sweep the hose back and forth across the fire.

On Fire?

REMEMBER: Stop, Drop, & Roll

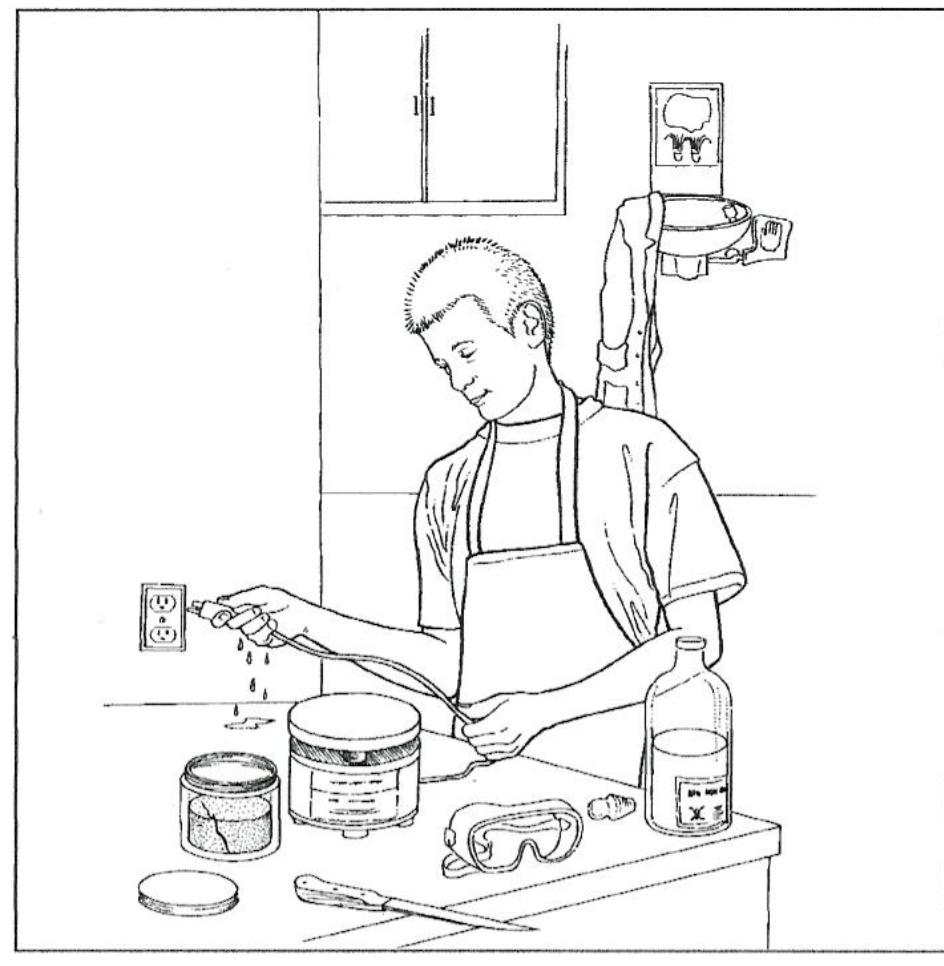


Safety Equipment

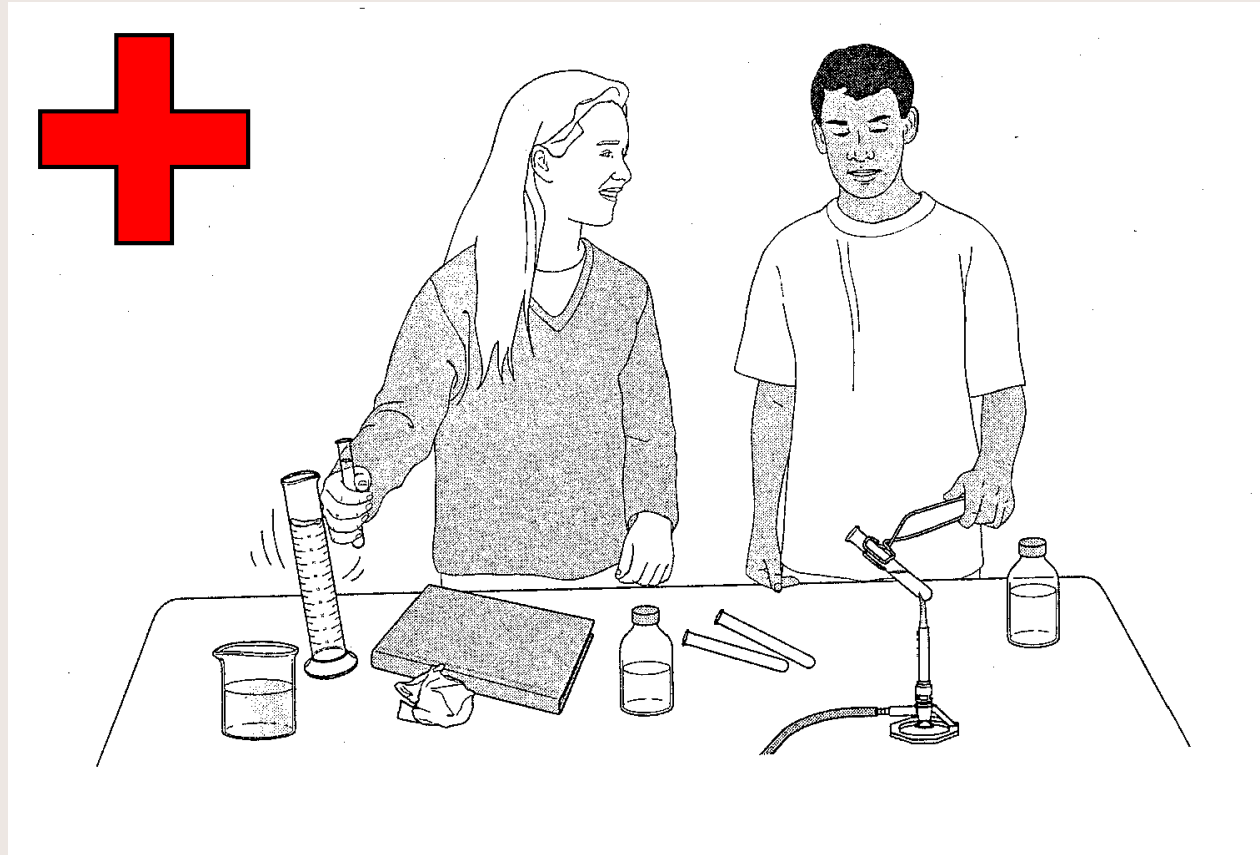


- Goggles – Must be worn when working with Hydr-Ox
- Lab Coats should be worn while handling chemicals
- Cell phones should not be used while in the lab
- Headphone must not interfere with your ability to hear instructions

What's Wrong With This Picture?



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What's Wrong With This Picture?





What's Wrong With These Statements?

- Hal says that his teacher is solely responsible for preventing laboratory accidents.
- Keshia started the lab activity before reading it through completely.
- Ricardo decided to do a lab activity that he read about in a library book before the teacher came into the classroom.
- Stephanie says that the safety goggles mess up her hair and give her raccoon eyes. She refuses to wear them.
- Barbie and Ken accidentally break a beaker full of some chemical. Instead of risking getting in trouble they quickly clean up the mess with paper towel and throw it in the garbage.

What To Do In An Emergency

If there is a fire or fire alarm

- Quietly get up and exit the lab.
- Exit by the art room
- Go to where your TA meets



Lab Safety: Everyone Is Responsible!

Any Questions?



REMEMBER:

- Carefully read through the entire safety contract and sign.
- Have your parents read and sign your safety contract.