



Lab Safety

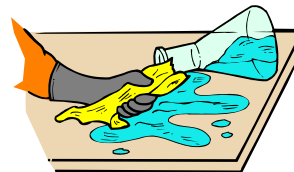


Safety First

- Science is a hands-on laboratory class.
- You will be doing many laboratory activities, which require the use of hazardous chemicals and expensive lab equipment.
- Safety in the science classroom is the #1 priority.
- To ensure a safe science classroom, a list of rules has been developed and provided to you in your student safety contract.
- These rules must be followed at all times.
- A signed lab safety contract is required to participate in labs.

General Safety Rules

1. **Listen to or read instructions** carefully before attempting to do anything. Do not handle equipment unless instructed.
2. **Wear safety goggles** and appropriate clothing.
3. **Notify your teacher if any spills or accidents occur.**



General Safety Rules

4. After handling chemicals, always **wash your hands** with soap and water.



5. **Never eat or drink** anything in the lab unless instructed to do so.



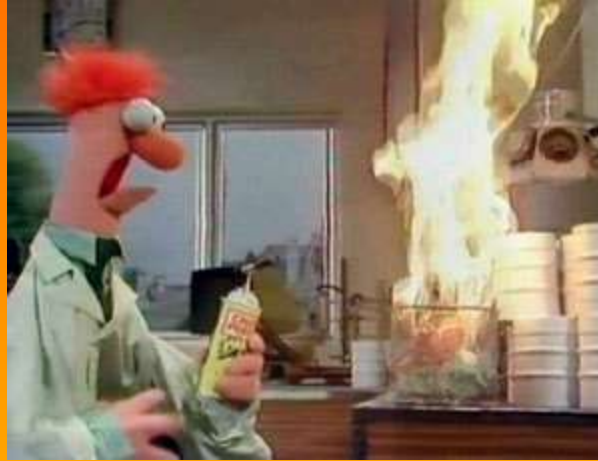
6. **Know the location** of the fire extinguisher, fire blanket, eyewash station, and first aid kit..



General Safety Rules

7. **Clean up** your lab area at the conclusion of the laboratory period.
8. **Never “horse around”** or play practical jokes in the laboratory.
9. If you need to smell the odor of a chemical, **waft the fumes** toward your nose with one hand. Do not put your nose over the container and inhale the fumes.
10. **Properly dispose of all chemicals**





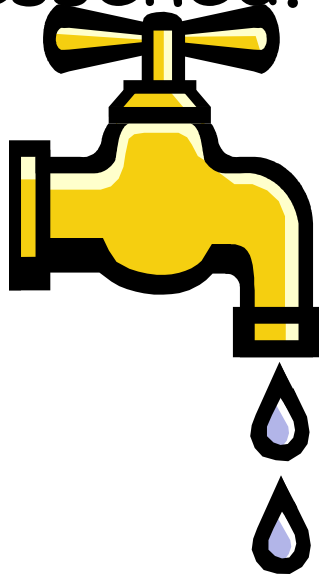
In case of an accident or
emergency....

always alert the teacher first!!

First Aid

Injury: Burns

What To Do: Immediately flush with cold water until burning sensation is lessened.



First Aid



Injury: **Cuts, bruises**

What To Do: Do not touch an open wound without safety gloves. **Pressing directly on the wound will stop bleeding** in a few



Apply cold compress to bruises to reduce swelling.



First Aid



Injury: **Eyes**

What To Do: **Flush eyes** immediately with plenty of water for **15 minutes**.

If a foreign object is lodged in the eye, do not allow the eye to be



First Aid



Injury: **Chemical spills on skin**

What To Do: **Flush** with water for **15 minutes.**

EMERGENCY

**SAFETY
SHOWER**

KEEP AREA CLEAR



What To Do In An Emergency

If there is a fire or fire alarm

- Quietly get up and push in your chair.
- Walk toward the outside classroom door.
- Walk to the flag pole.
- Quickly line up so that attendance can be taken.
- Remain in line until the drill is over.
- Remain silent throughout the entire alarm so that all people can hear important directions.



Lab Safety: Everyone Is Responsible!

Safety Symbols



Eye Protection



- Wear safety goggles when working with chemicals, flames, or heating devices.
- If a chemical gets in your eye, flush in water for 15 minutes and notify the teacher.

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.
- Unplug all equipment before leaving the room.

Safety Symbols

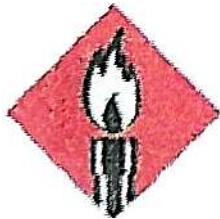


Animal Safety



- Only handle living organisms with teacher permission.
- Always treat living organisms humanely.
- Wash your hands after handling animals.

Heating Safety



- Tie back hair and loose clothes when working with open flames.
- Never look into a container as you are heating it.
- Heated metal and glass looks cool, use tongs or gloves before handling.
- Never leave a heat source unattended.

Safety Symbols

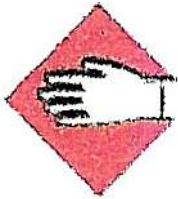


Chemical Safety



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

Hand Safety



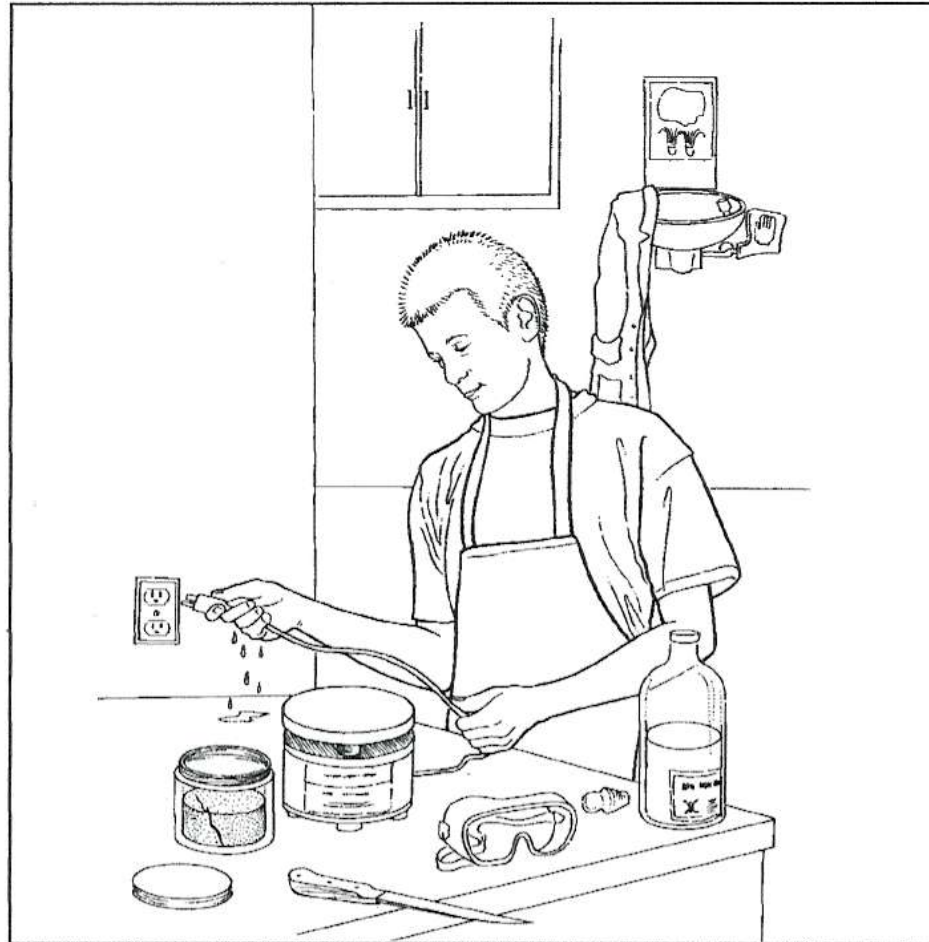
- If a chemical spills on your skin, notify the teacher and rinse with water for 15 minutes.
- Carry glassware carefully.

Plant Safety

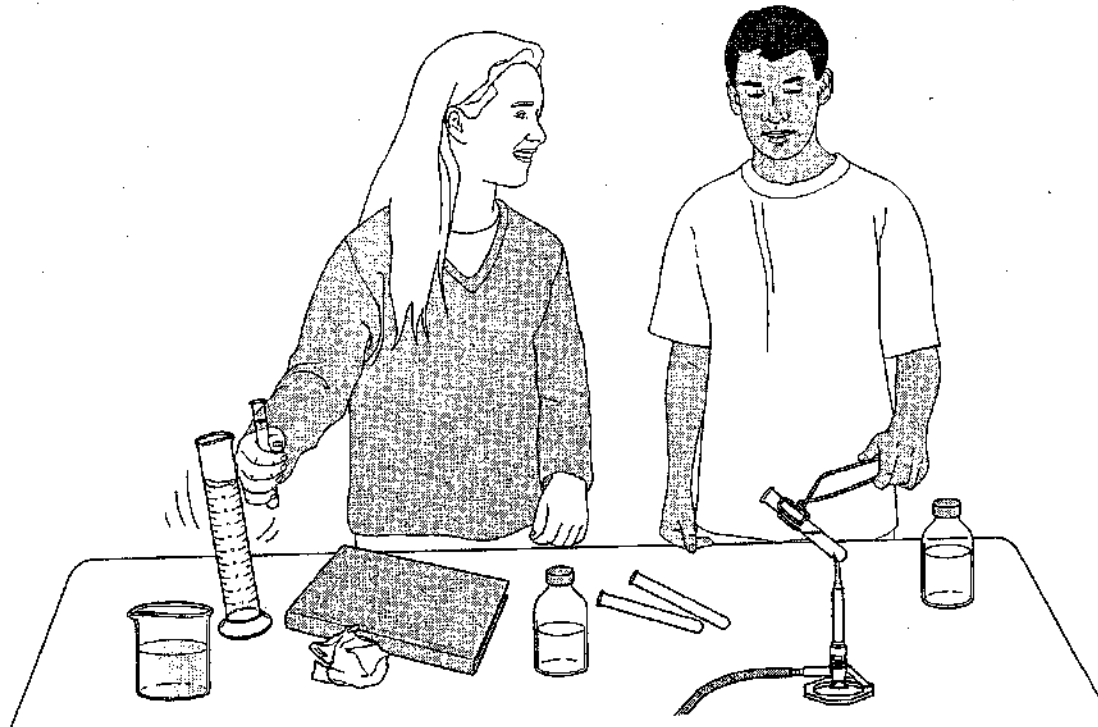


- Do not eat any plants in lab.
- Wash your hands after handling plants.

What's Wrong With This Picture?



What's Wrong With This Picture?



What's Wrong With This Picture?



What do these safety symbols mean?

- 1.



- 2.



- 3.



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.