

**Lab Safety: Everyone Is Responsible!**

# **Safety In the Science Lab**

## **Rules and Symbols**

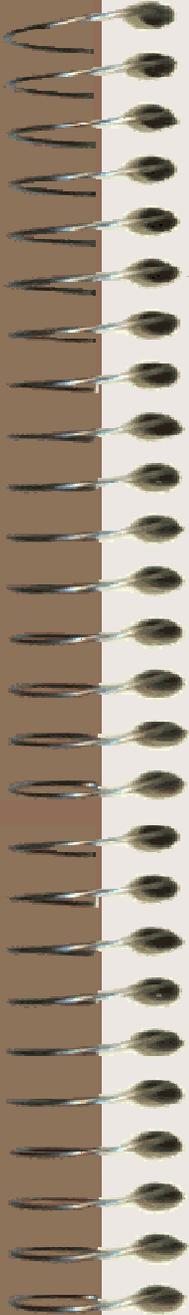


Worley Middle School  
2013-2014



# 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.

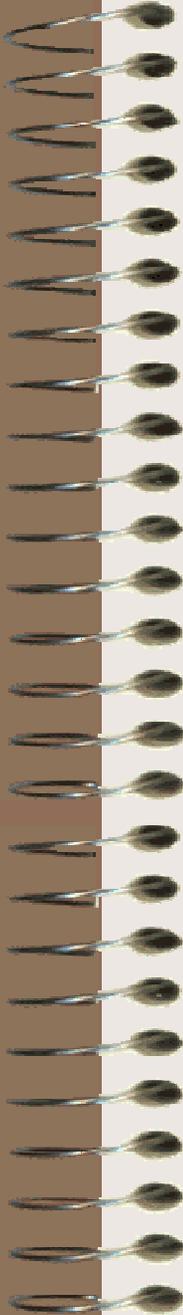


# **+** General Safety Guidelines

---

- 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 science classroom.

**Lab Safety: Everyone Is Responsible!**



# **+** General Safety Guidelines

- Keep the science room clean and organized.
- Notify the teacher immediately of any accidents or unsafe conditions in the science classroom!
- Wash your hands with soap and water after experiments.
- Never enter chemical storeroom without teacher supervision.
- Never work alone.

**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

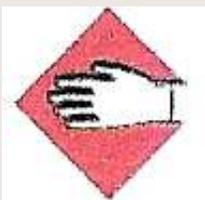


## Chemical Safety



- 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.
- Do not pick up broken glass.
- Carry glassware carefully.

## Plant Safety



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



# Safety Equipment



- Fire Blanket – On top shelf of safety shower
- Fire Extinguisher – Front of Classroom

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**

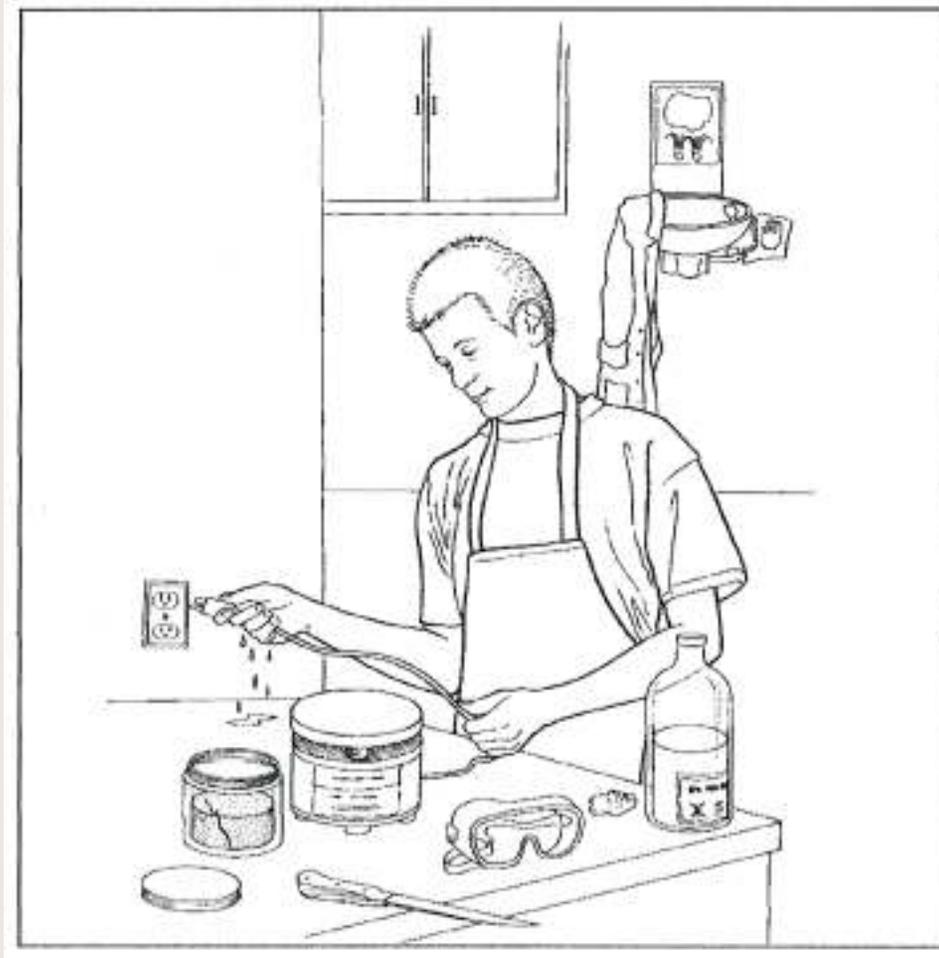


# Safety Equipment

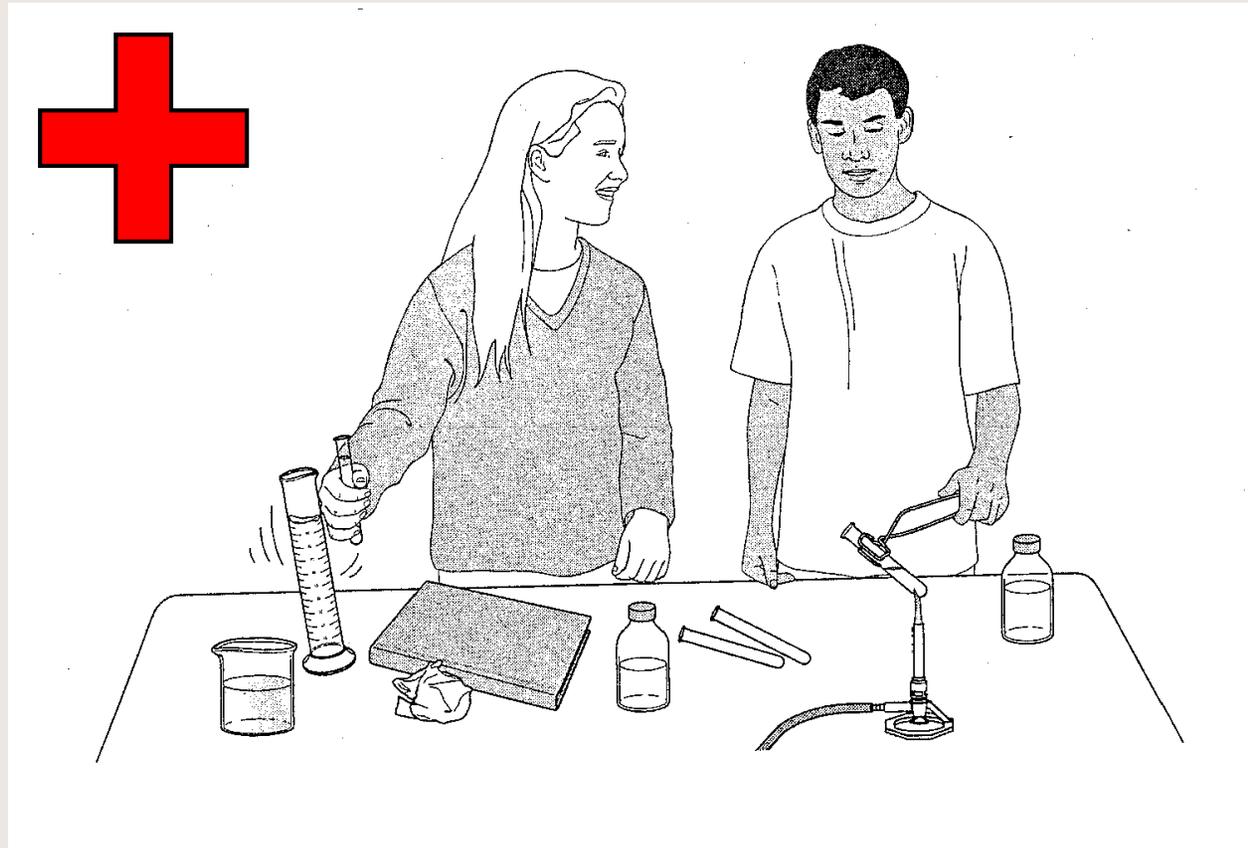


- Safety Shower – Front Right Corner of Classroom
- Eye Wash Station – attached to Safety Shower
- First Aid Kit – On top shelf of safety shower
- Biohazard Kit – On top shelf of safety shower

# What's Wrong With This Picture?



# What's Wrong With This Picture?



# What's Wrong With This Picture?





# What's Wrong With These Statements?

- Avon says that his teacher is solely responsible for preventing laboratory accidents.
- Henry started the lab activity before reading it through completely.
- Van 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 push in your chair.
- Walk toward the outside classroom door.
- Walk across the drive to the field.
- Quickly line up.
- 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!**

# Any Questions?



## REMEMBER:

- Carefully read through the entire safety contract and sign.
- Have your parents read and sign your safety contract.
- Study for the safety check later this week!