



# Laboratory Safety Rules

**NOTICE**




**Lab Coat and Eye Protection Required**

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**BASIC LABORATORY RULES**




**X DON'TS**

- 1 Do not enter a laboratory unless a teacher is present.
- 2 Do not attempt any experiment without the teacher's permission.
- 3 Do not eat, drink, play or run about in the laboratory.

**✓ DO'S**

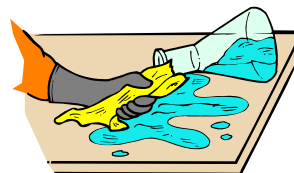
- 1 Keep all laboratory exits and passages clear.
- 2 Keep the laboratory clean and tidy.
- 3 Report all accidents to the teacher at once.



# General Safety Rules



1. **Listen to or read** instructions carefully before attempting to do anything.
2. Wear **safety goggles** to protect your eyes from chemicals, heated materials, or things that might be able to shatter.
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. During lab work, **keep your hands** away from your face.

6. Tie back **long hair**.



# General Safety Rules

7. Roll up **loose sleeves**.
8. Know the **location** of the fire extinguisher, fire blanket, eyewash station, and first aid kit.
9. Keep your **work area uncluttered**. Take to the lab station only what is necessary.



# General Safety Rules



10. It is suggested that you wear **glasses** rather than contact lenses.
11. Never put anything into your **mouth** during a lab experiment.
12. **Clean up** your lab area at the conclusion of the laboratory period.
13. **Never "horse around"** or play practical jokes in the laboratory.



# Glassware Safety



1. **Chipped or cracked glassware** should not be used. Show it to the teacher.
2. **Broken glassware** should not be disposed of in a classroom trashcan. There is a **special glass disposal** container for it.
3. When **pouring liquids into glassware**, make sure the container you are pouring into is resting on a table at least a hands breadth from the edge.



# Glassware Safety



4. Pour down a **glass stirring rod** to prevent liquids from splattering.
5. If a piece of glassware gets broken, do not try to clean it up by yourself. **Notify the teacher.**
6. Do not place **hot glassware** in water. Rapid cooling may make it shatter.

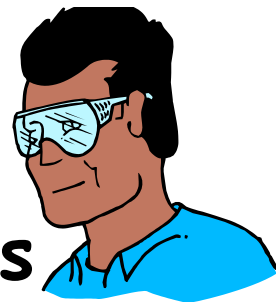




# Chemical Safety



1. Wear **protective goggles** and a lab apron.
2. Never **mix chemicals** together unless you are told to do so (and then only in the manner specified).
3. **Never taste** any chemicals (you should never taste anything in the lab).





# Chemical Safety



4. 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.



5. Never pour water into a concentrated acid. **Acid** should be poured slowly into water.



# Chemical Safety



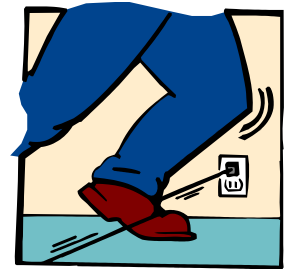
6. **Follow teacher's instructions** when disposing of chemicals. Do not just pour them down the sink!
7. **Wash your hands** after handling hazardous chemicals.
8. **Never** enter the Chemical prep room.



# Electrical Safety



1. Lay **electrical cords** where no one can trip on them or get caught in them.



2. Be sure your **hands and your lab area are dry** before using electrical equipment.

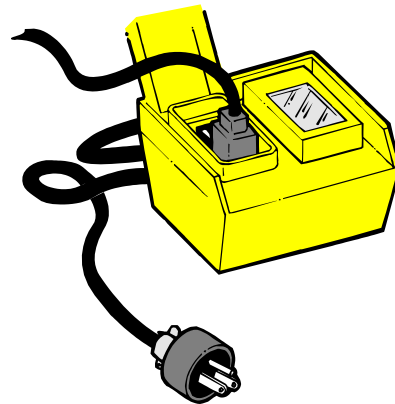
3. Never poke anything into **electrical outlets**.



# Electrical Safety



4. Unplug cords by **pulling the plug** and not the cord.
5. **Unplug** all electrical equipment at the **end of the lab period.**



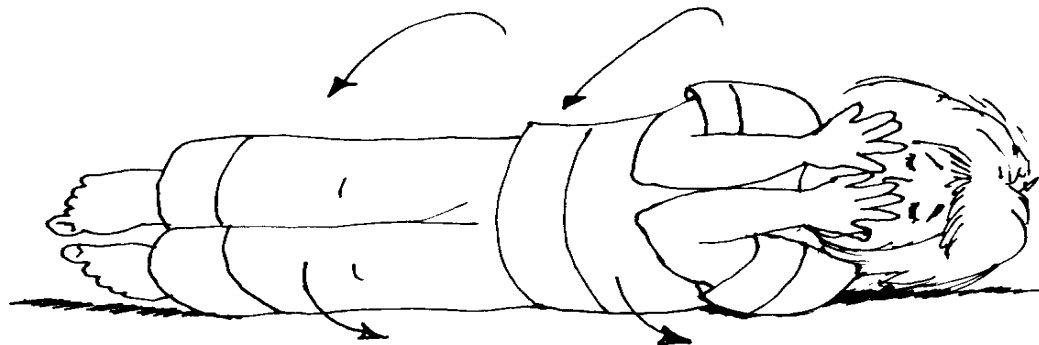
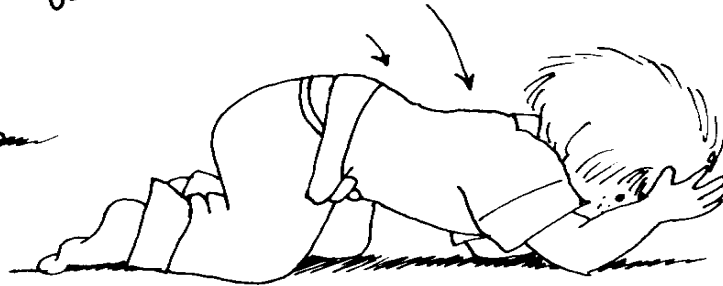
# If Your Clothes Catch on Fire



**STOP**

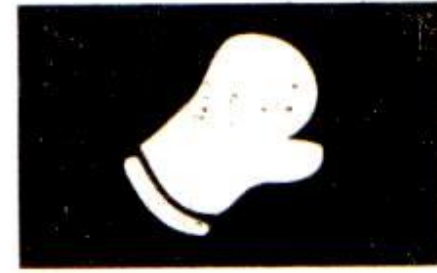
**DROP**

**ROLL**



What do you do if your clothes catch on fire? **STOP**, don't run, **DROP** to the floor and **ROLL** the flames out, just like Jamie is practicing.

# Heating Safety



1. Let **burners and hotplates cool** down before touching them. Test to see if they are cool enough by bringing the back of your hand close to them.
2. Use **tongs and/or protective gloves** to handle hot objects.
3. Never reach across an **open flame** or burner.



# Heating Safety



5. Always point the **top ends of test tubes** that are being heated **away** from people.
6. When heating a test tube, **move it** around slowly over the flame to distribute the heat evenly.
7. Never leave a **burner or hotplate unattended.**





# First Aid

Injury:

Burns

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



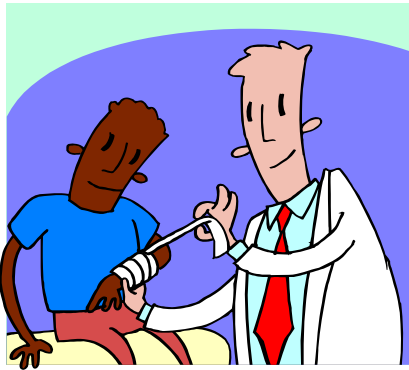
# First Aid



Injury:

Cuts, bruises

What To Do: Do not touch an open wound without safety gloves.



Pressing directly on minor cuts will stop bleeding in a few minutes. Apply cold compress to bruises to reduce swelling.



# First Aid

**Injury:** Fainting

**To Do:** Provide fresh air and have the person recline so that their head is lower than the rest of their body.



# 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 rubbed.



# First Aid



Injury:

Poisoning

What To Do: Find out what substance was responsible for the poisoning and alert the teacher immediately.



# First Aid



**Injury:**

**Spills on the skin**

**What To Do:**

**Flush** with large quantities of water.



# First Aid



**Injury: Fire**

**What To Do:**

- **If you are on fire:** Stop. Drop. And Roll.
- **If your friend is on fire:**
  - #1 Use fire blanket and cover them
  - #2 Use fire extinguisher (if no other choice)
- **If the lab is on fire:** Use fire blanket or fire extinguisher to put out the flame. Exit lab and building if fire cannot be controlled.



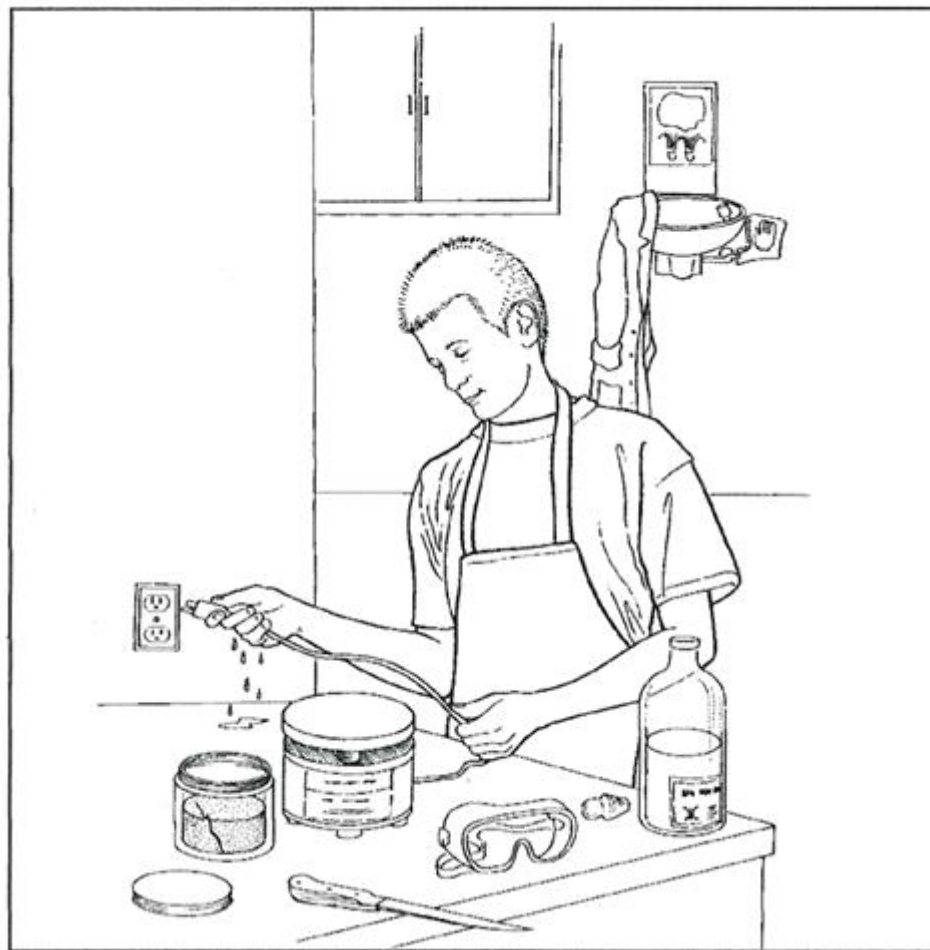


# Number One Rule...



- Be smart, follow instructions.

# What's Wrong?



# What's Wrong?



# What's Wrong?



# Lab Safety Video



<http://www.schooltube.com/video/7f7674cff2cbba7cbd6e/AGHS-Lab-Safety-Rap>

# Lab Safety Quiz



- You must get 100% to participate in chemical labs!!
- You will rewrite again if you do not get 100%.
- Good Luck!