



LABORATORY SAFETY



Toxic



Corrosive



Flammable materials

Basic Lab Equipment





Flask

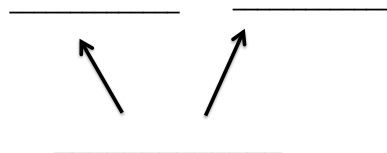


Beaker

Basic Lab Equipment



Graduated
Cylinder



Basic Lab Equipment



Hot Plate



Before the Lab

Labs are very similar to cooking or baking. Would you attempt to bake a cake from scratch without looking to see which ingredients are required? Would you attempt to do it without following a recipe?



For your safety, (and grade), please make sure you read the directions carefully!

Before the Lab

- Alert your instructor if you have any allergies (including any food allergies).



- If you know of an absence ahead of time, please alert your instructor so that you may schedule a makeup lab after school.



Attitude & Attire



For your safety, follow these guidelines pertaining to your attire:

Long hair should be _____ during labs.

_____ should be worn during the lab.



_____ should be worn during the lab.



Attitude and Attire

_____ are permitted in the lab.



Refrain from wearing contact lenses during the lab.

_____ should be worn instead.

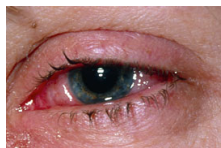
_____ are to be worn in the laboratory at all times!



Attitude and Attire

Do not put your fingers in your mouth or _____ during the lab.

No _____ is permitted in the laboratory.



Attitude and Attire

No horseplay!

If instructor feels you are misbehaving, you will be _____ from the lab and receive a "_____".
You may also lose privileges to work with partners.

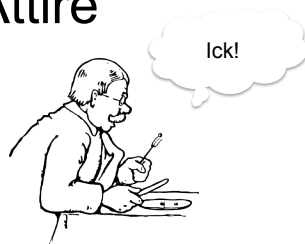


Please act mature and respectable in the lab.

Attitude & Attire

Do _____ any of the chemicals!

If you are instructed to smell the chemicals, use the _____ technique. Do not put face directly near the chemicals.



Attitude and Attire

Lab work can only be done with a _____ in the classroom.

Only perform experiments that are authorized by your teacher. Do _____ anything unless you have received permission from the teacher.

Be sure that you _____ of all the materials you are working with during the lab!



Lab Safety Symbols



_____ is required.



Thermal safety; caution when
_____.



Protective clothing is required
(such as _____).



Caution using _____ objects.

Lab Safety Symbols



Harsh _____; work in _____
_____ area and place items in fume
hood.



_____ of chemicals and materials.



_____ equipment in use.



_____ substances in use.

Lab Safety Symbols



Use of _____ required during
laboratory.



Caution: _____ materials.



_____; use caution.



Use of _____ required.

Lab Safety Symbols



Explosion safety; _____ of
chemicals could cause _____.



_____ (could cause
fire or explosion).



_____; potential danger with
bacteria, viruses or fungi.



Caution: _____ materials

During the Lab



Keep all backpacks and personal belongings _____

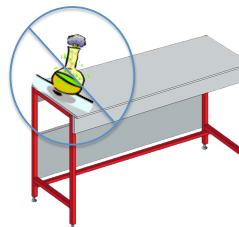
_____.



Be sure that any classroom _____ or other obstructions are moved to a designated area. You must _____ during the lab at all times.



During the Lab



Keep your materials _____



_____ (Don't just put it back where you found it, please).



Broken glass should also be reported and _____



During the Lab



Use extra caution when using hot plates.

-When not using them _____ them

-Allow the hot plate to _____ before putting it away

Inform the teacher of any injuries.

-No injury is too small to report to the teacher!

Make sure you know where a first aid kit can be found.



During the Lab

Report any _____ (big or small) to the teacher.

-Ensure proper _____.

-Know the _____ of the materials.



Never pour chemicals down the _____!

During the Lab

When handling chemicals, use _____ as to not _____ them.



When mixing chemicals, always _____

-This prevents splashing.

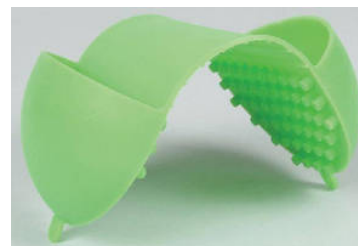
-Water can _____ that might generate from the mixing of some chemicals.



During the Lab

Handle hot glassware with _____, _____, or _____! Never attempt to hold hot glassware with your bare hands!

Keep in mind that once heated, glassware can _____ for a long time.



Injuries and Accidents

The best way to avoid accidents during the lab is to be responsible and careful.

If chemicals get in your eyes:

-Inform the teacher

-Use the **emergency eye washing station** by flushing out your eyes for _____ minutes with your _____.



Burns or chemicals on the skin:

-Inform the teacher

-Rinse the afflicted area **under cold** _____ for _____ minutes.



Injuries and Accidents



Should a fire occur- do not try to put it out yourself.

Throw a _____ over the fire immediately to prevent it from getting bigger.

Fire blankets should also be used if your _____ is on fire. Immediately wrap the blanket around you to smother the flames.



After the Lab

Be sure to follow the directions (written and orally from your teacher) as to how to dispose of the chemicals. Some chemicals may have a _____.

You must put the appropriate chemicals the appropriate place when you are done.



After the Lab

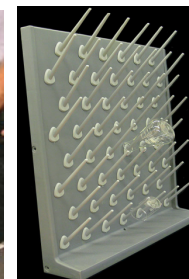
You must practice "good housekeeping" during the lab.

-All glassware must **be** _____ (soap and water) in the sinks and put on _____. Please be sure that glassware has _____ before washing to _____.



Long skinny brushes are test tube brushes.

Spend a few seconds on each test tube to ensure all _____ with brush.



After the lab



Goggles need to be put away neatly in the _____.

All other equipment must be put away _____ where you found it.



Wipe down your lab benches with spray cleaner and a _____.

Remove all debris. Put paper towels in the _____.



Lastly, be sure to wash your hands with soap and water!

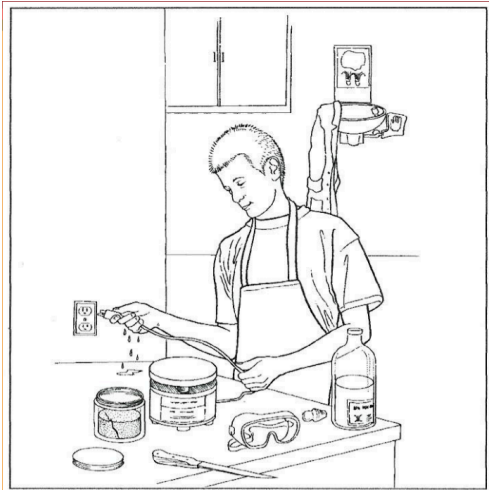
Fire Drills

IF a fire drill occurs during the lab

- _____ all electrical items
- _____ if in use.
- _____ chemicals (put caps back on, etc.)
- Neatly place items at your lab station (do not throw them on desks, sinks, etc.)



What's Wrong with the Picture?



What's Wrong with this picture?



What's wrong with this picture?

