

Physical Science Lab Safety Rules



Lab Safety Contract



Lab Safety

- You cannot do any labs until you and your parent/guardian signs and returns contract.
- Zeros will go in the grade book



Due: As soon a possible.

- **If you turn it in to me by Tuesday August 11st, you will receive a yummy piece of candy!!**



Lab Safety Test Wednesday August 12th

Start Strong

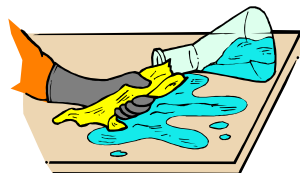
- Study your notes
- Go to my website and download the PowerPoint to help you study.
- **You must make an 80 to do lab.**
- **Will go in IC as a daily grade.**

[Lab Safety Video](#)

A. 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.



A. 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 and closed toe shoes.



A. 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. Stay at your station unless you need materials.





A. General Safety Rules

10. It is suggested that you wear glasses rather than contact lenses. (Goggles need to be in non-vented position)
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.



B. 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 handsbreadth from the edge.**

B. Glassware Safety



4. Pour down a glass stirring rod to prevent liquids from splattering.

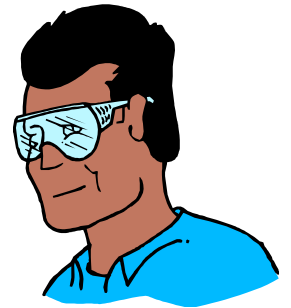
5. If a piece of glassware gets broken, do not try to clean it up by yourself. Notify the teacher.

6. It is hard to tell if glass is hot or cold. You should place your hand over the glass test it out

C. Chemical Safety



1. Wear protective goggles and a lab apron whenever heating or pouring hazardous chemicals.
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).



C. Chemical Safety



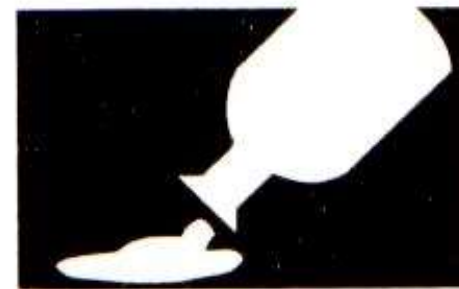
4. If you need to smell the odor of a chemical, waft the fumes toward your nose with one hand. Do not put your nose over the container and inhale the fumes.



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



C. Chemical Safety



- 6. If you spill an acid, you pour a base to cancel it out. If you spill a base, you pour an acid to cancel it out.**
- 7. Follow the instructions of your teacher when disposing of all chemicals.**
- 8. Wash your hands after handling hazardous chemicals.**



D. Electrical Safety

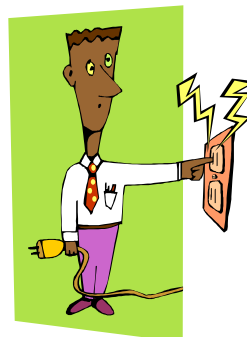


1. Lay electrical cords where no one can trip on them or get caught in them.



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

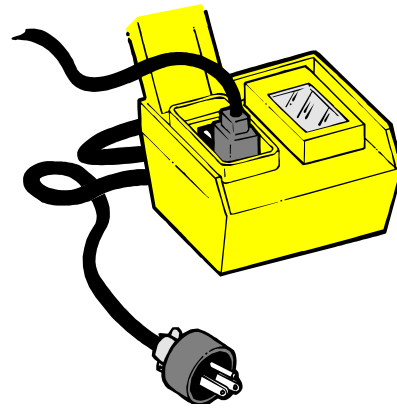
3. Never poke anything into electrical outlets.



D. 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.**



E. 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.**

E. Heating Safety



- 4. Always point the top ends of test tubes that are being heated away from people.**
- 5. When heating a test tube, move it around slowly over the flame to distribute the heat evenly.**



First Aid

Injury: Burns

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

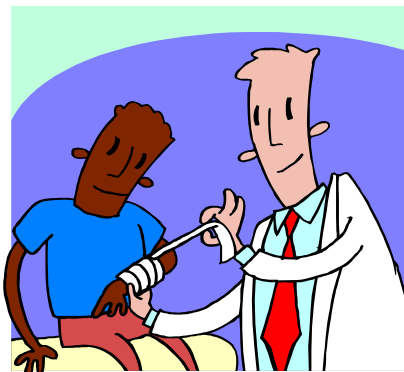


First Aid



Injury: Cuts, bruises

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.



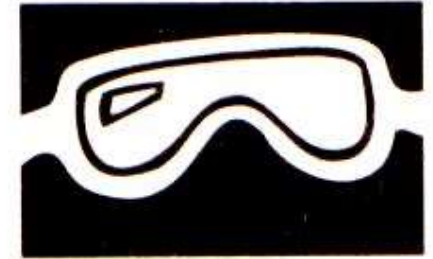
First Aid



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: The eyes

To do: Flush eyes immediately with plenty of water for several minutes. If a foreign object is lodged in the eye, do not allow the eye to be rubbed.



First Aid



Injury: Poisoning

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

First Aid



Injury: Spills on the skin

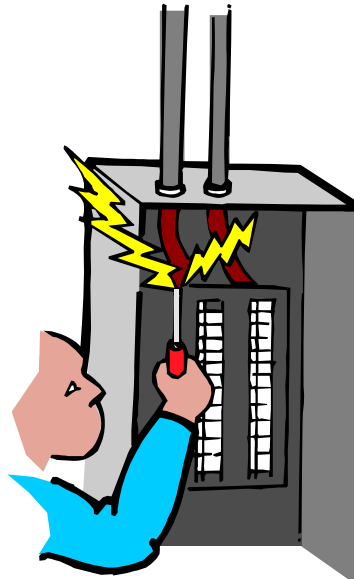
To do: Flush with large quantities of water. For acid spills apply baking soda solution. For base spills apply vinegar or boric acid.

First Aid



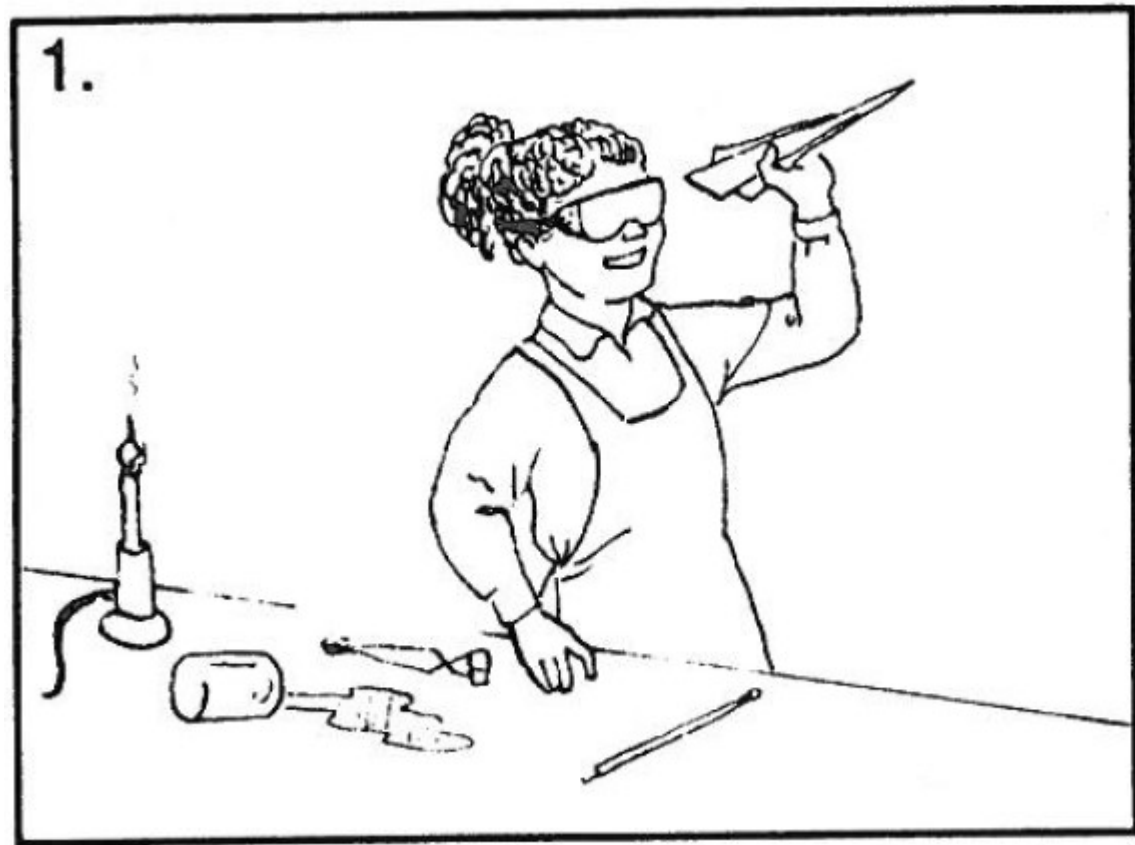
Injury: Electrical shock

**To do: Shut off the current at the source.
Remove wire with rubber gloves. Alert
the teacher immediately.**



Using a white board

Identify one safe behavior and one unsafe behavior in the image below.



Identify one safe behavior and one unsafe behavior in the image below.



Identify one safe behavior and one unsafe behavior in the image below.



Identify one safe behavior and one unsafe behavior in the image below.



Use the image below to identify all things that would be considered a lab safety issue.

