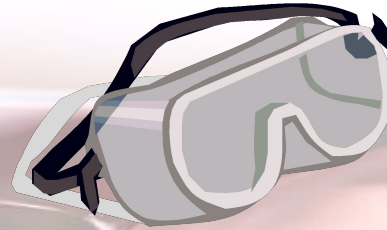


Safety is our #1 priority!!!



Safety Equipment

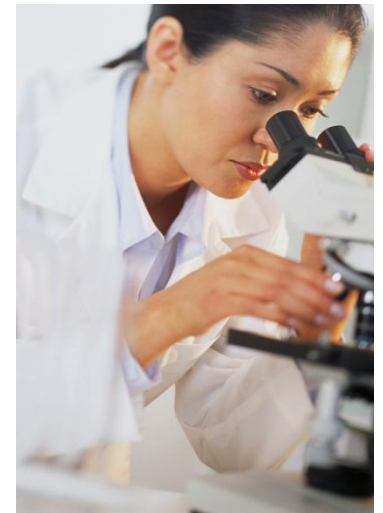
- A tour of the lab:
 - Aprons
 - Goggles
 - Fire extinguisher
 - Fire blanket
 - Safety shower
 - Eyewash stations
 - Emergency shut-off
 - Broken glass disposal
 - Phone numbers



Lab Attire

Dress properly for the laboratory.

- a. Wear a lab apron!
- b. Wear goggles when instructed!
- c. Roll long sleeves above the wrist.
- d. Tie back long hair.
- e. Don't wear loose-fitting sleeves or bulky outerwear.
- f. Avoid open-toed shoes.
- g. Dangling jewelry should be removed.



The lab is NOT the place to make a fashion statement!

More Lab Safety Guidelines

- **NEVER** run, push, or engage in horseplay of any kind in the laboratory.



More Lab Safety Guidelines

- **Never eat or drink in the laboratory.**



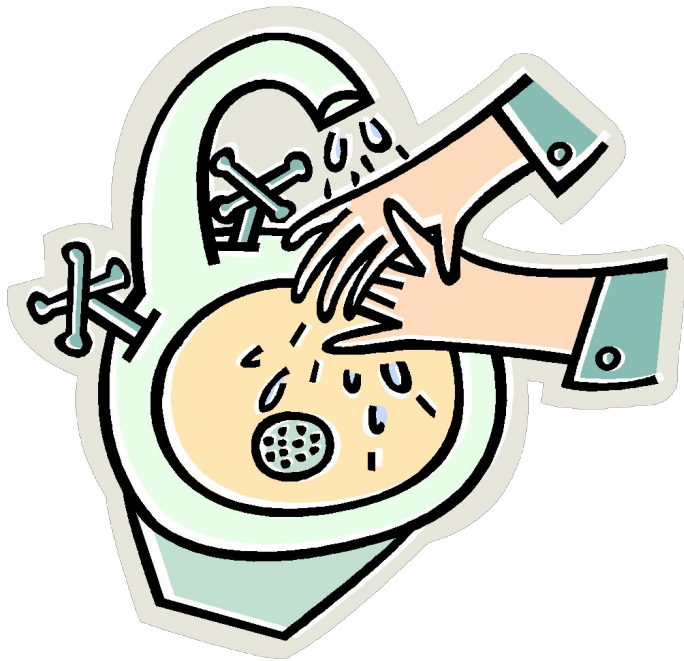
More Lab Safety Guidelines

- Report any accident, spill, or breakage to you teacher immediately.
- Never do laboratory work unless your teacher is supervising you.
- Always follow the directions given by your lab manual or by your teacher.

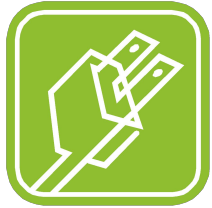


More Lab Safety Guidelines

- **Always clean your work area and equipment at the end of the lab period.**

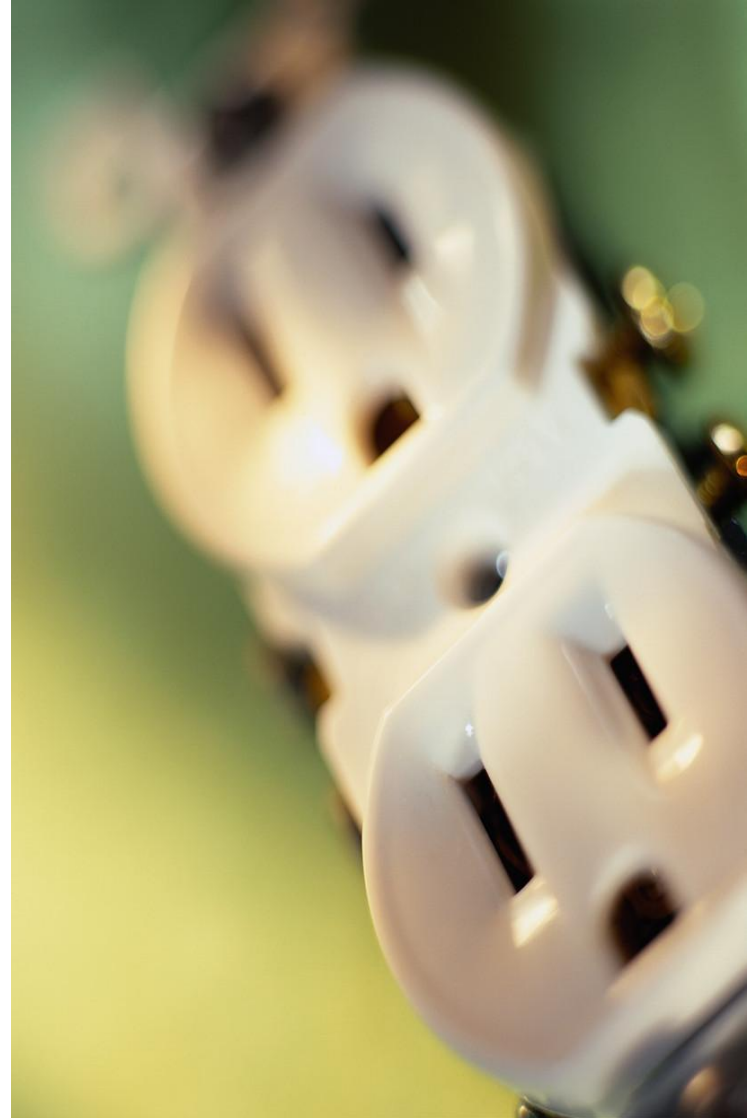


Electricity



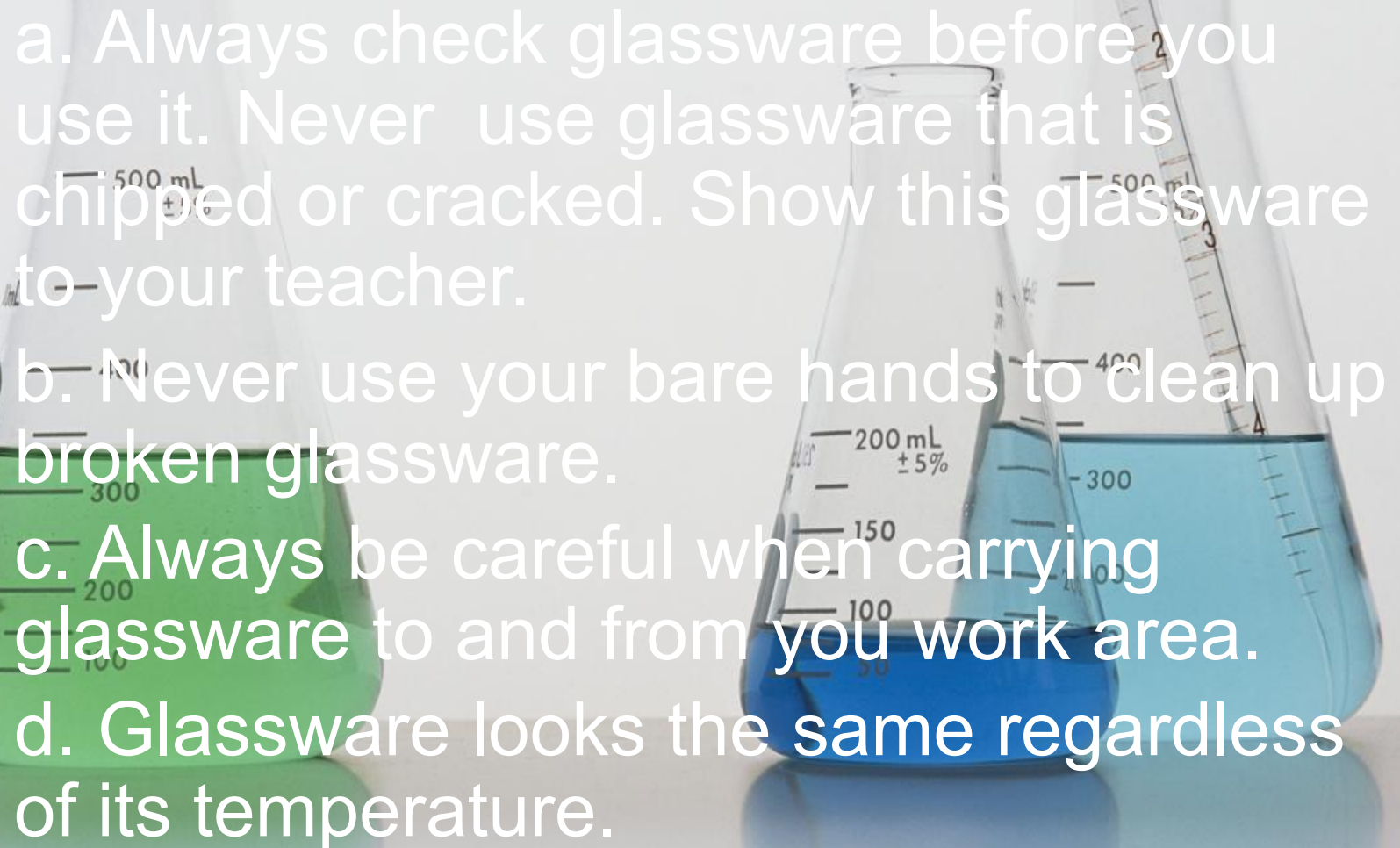
Use care with electricity.

- a. Always make sure electrical cords are kept away from the edge of the table.
- b. Always use electrical equipment in a completely dry area.



Glassware

Be careful with laboratory glassware.

- 
- a. Always check glassware before you use it. Never use glassware that is chipped or cracked. Show this glassware to your teacher.
- b. Never use your bare hands to clean up broken glassware.
- c. Always be careful when carrying glassware to and from your work area.
- d. Glassware looks the same regardless of its temperature.

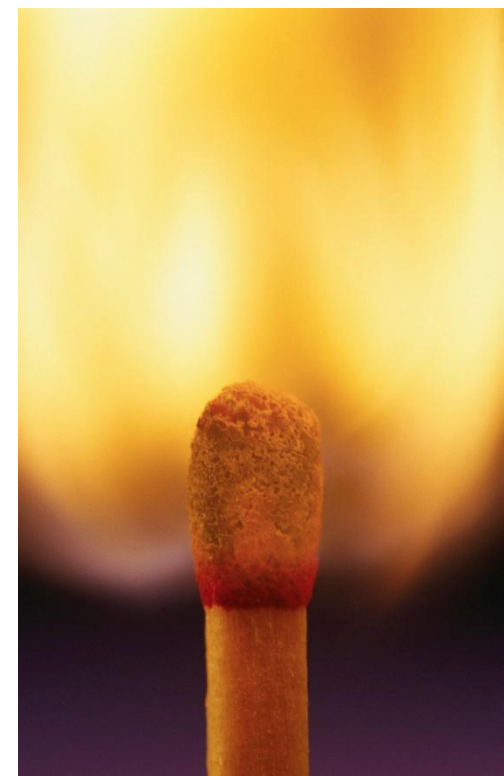
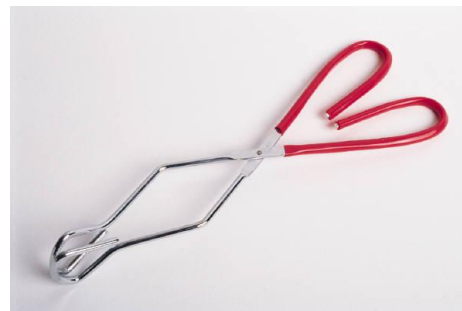


Fire



Be very careful with heat or fire.

- a. Always use tongs to handle hot containers, objects, or materials.
- b. Always heat liquids slowly and/or cover to avoid spattering.
- c. Always turn burners and hotplates off when they are not in use.
- d. Never allow flammable materials such as alcohol near an open flame.
- e. Notify your teacher in the case of a burn. Minor burns should be soaked immediately in cold running water.



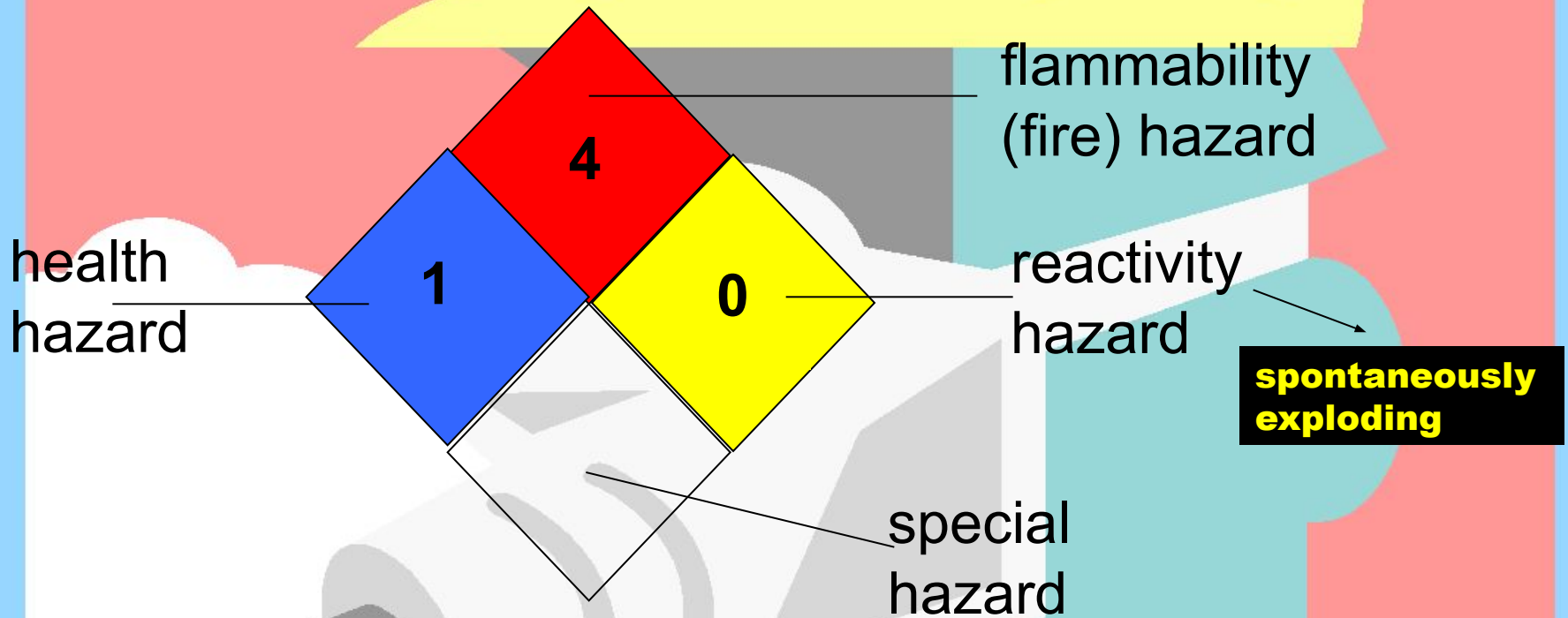


Chemicals

Use extreme care when working with chemicals.

- a. Always treat the chemicals in the laboratory as hazardous.
- b. Never taste substances in the laboratory.
- c. Never smell or touch substances in the laboratory without specific instructions.
- d. Never mix any chemicals unless you are instructed to do so.
- e. Use materials from containers that are clearly marked.
- f. If you spill any chemicals on your skin, wash your skin with running water. If chemicals splash in your eyes, use the eyewash and flush your eyes for 20 minutes.

NFPA Hazard Label



4- severe hazard 3- serious hazard 2- dangerous hazard
1- minor hazard 0- slight hazard

At – A – Glance Chemical Safety

long-term

**short-term;
isolated problems**

Health	Flammability	Reactivity	Exposure	Storage
3	0	2	3	3

3 = extremely hazardous

1 = somewhat hazardous

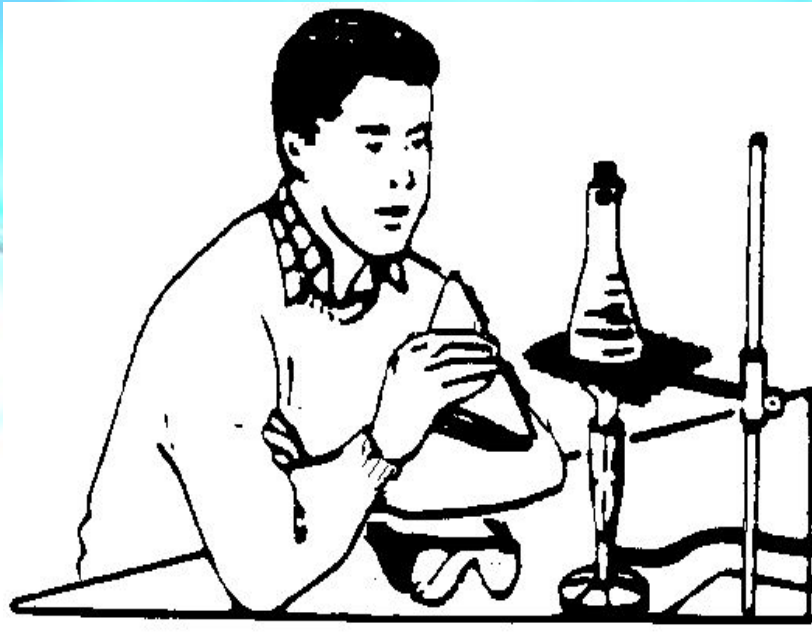
2 = very hazardous

0 = little hazard

Common Special Hazard Symbols



What is wrong & why???

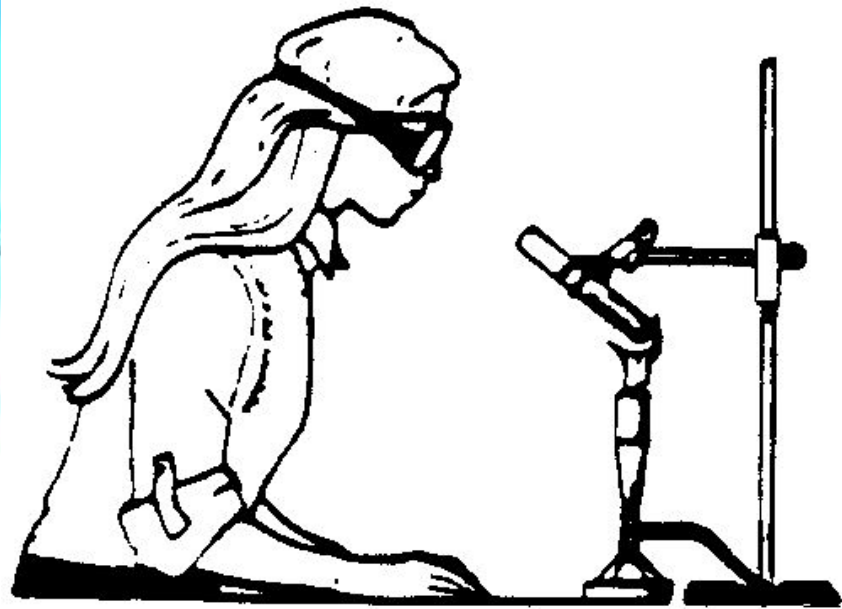


*** eating while conducting an experiment**

*** not wearing safety goggles while heating & using chemicals**

*** cork (or stopper) in a piece of glassware that is being heated**

What is wrong & why???



*** test tube is pointed towards the student**

*** long hair isn't pulled back**