

Safety In Our Laboratory

Safety is the #1 Priority

FLINN SAFETY CONTRACT

MUST BE SIGNED AND
SUBMITTED BY Sept 1, 2006

Lab Scavenger Hunt

Your job is to find each item on the list and put the initials of the item on the proper place on the room map provided.

Fire extinguisher	Gas shut-off valve
Eye Wash	Fume Hood
Exits (2)	Gas jets
Broken Glass trash	Distilled water
Reagent Table	Sand Bucket
Fire Blanket	Lab apron storage
First Aid Kit	Goggles
Spill kit	Safety Shower
Lab Tables	Paper Towels

Write the first letter(s) of each piece of equipment or site at the proper location on the diagram

Safety in the Chemistry Laboratory

Any chemical can be dangerous if it is misused. Always follow the instructions for the experiment. Pay close attention to the safety notes. Do not do anything differently unless told to do so by your teacher.

Chemicals, even water, can cause harm. The challenge is to know how to use chemicals correctly. To make sure you are using chemicals correctly, follow the rules stated below, pay attention to your teacher's directions, and follow cautions on chemical labels and in the experiments.

Specific experiments will use a system of Safety Symbols to highlight specific types of precautions. No matter what Safety Symbols an experiment may contain, the following safety rules apply any time you are in the lab.

Before You Begin

- 1. Read the entire activity before entering the lab.** Be familiar with the instructions before beginning an activity. Do not start an activity until you have asked your teacher to explain any parts of the activity that you do not understand.

2. Student -desinged procedures must be approved before you start

3. Proper dress is required:
Goggled
Shoes that cover the feet
Lab apron

4. Contact Lenses

This is your informed decision

You may wear contact lenses but you do so knowing that in an emergency contacts can make washing your eye more difficult

5. Know the location and how to use all safety equipment in the Lab.

You will be asked to draw a safety map of the room on your safety quiz and you will be asked to locate key pieces of safety equipment on the map: exits, fire extinguisher, eye wash, safety shower, gas shut off valves, fume hood, broken glass disposal, sand bucket and others

6. Wear your safety goggles and lab apron when working with:

Heat
Glass
Chemicals

7. Never work alone in the lab

Do not leave equipment unattended

Examples: Bunsen burner
Hot Plate

Someone in the lab group must be
attending to these at all times!!

8. Perform only activities as directed by the instructor

If you dont know: Ask!!

11. Be alert and walk with care in the lab
Items are plugged in, bunsen burners are on
Be aware that careful movements are best

12 No food, No drinks

13 Hot plates and bunsen burners require your
utmost care.

Keep hair, sleeves, paper AWAY from flames +
heat

Use beaker tongs or utility tongs to move hot items
onto approved surface

14. Inspect all glassware for cracks or chips before use

Glass can break easily and cause a serious cut

HOT glass and COLD glass look alike

Use Caution

15. Use Caution with electrical equipment.

Plug in and unplug with dry hands

Check to cord for frayed areas

Place the cord in such a way that it will not be moved or caught by accident

16. The Lab is a place for serious work

No fooling around, No horseplay

Such actions will result in your removal from the lab

17. Never Taste Chemicals

Keep your hands away from your face and mouth

If a chemical comes in contact with your skin

Rinse under water immediately and contact your instructor

18. WAFT

When instructed to smell a substance hold the vessel up and waft the fumes toward your nose

Never inhale fumes directly

19. Read Chemical labels

Follow all instructions and safety precautions stated on labels

20 Use Caution with Flammable Liquids

Keep away from hot plates and open flame

The fumes of such liquids as well as the liquid may ignite

21. Take only small amounts of needed chemicals

It is better to return form more than to take too much

Never return extra chemicals to the original container
Ask you instructor how to dispose of extra chemical

22. Never take chemicals out of the lab

23. In case of Fire

On a person: Tell the instructor- follow her directions
Use the fire blanket to smother flames

At your table: Tell the instructor
Follow her directions

24. Report any accident , no matter how trivial to the instructor

26. If you spill a chemical on your skin

Wash with water immediately

Remove clothing if necessary

Use the safety shower if it is a large area

Contact your instructor

27. If you get chemicals in your eyes

Walk immediately to the eye wash station

Turn the paddle down

Hold your eyelids open and lower your eyes into the running water. Move your eyes around to get all areas

Flush for at least 15 minutes

Tell your instructor

28 Clean your work area when you are finished

Return all equipment after you have cleaned it

Wipe down the table with wet paper towel

Put used chemicals where instructed

A clean lab is safer and it is everybody's
responsibility

29 Wash your hands with soap and water
when you are finished

30. All lab rules apply at all times

Whether stated or not on a specific day

All rules are in force!!

SAFETY

Flinn Safety contract signed by you and your parent/guardian due by Friday, Sept 1 2006

Handouts: Flinn safety contract, Safety Poster rubric

A Safety Poster

Choose a safety rule from the rules given from the text or from the Flinn Safety contract. Illustrate this rule in a colorful poster using magazine pictures, a cartoon, a poem, or other creative way that gets the message across clearly and accurately. We will not use in-class time for this.

This is an 4 point homework assignment. I will ask you to present your poster in class. Please remember, late work is not accepted! See rubric

Due to lack of wall space in the room the size cannot exceed 11" x 16-18"
Posters will be displayed horizontally

Examples of safety posters

Safety in Our Laboratory

Safety is our **FIRST** priority

<http://www.chem.unl.edu/safety/hslabcon.html>

