Lab Safety







**Safety First! Always.** 

#### Cornell Note-taking Method - Lifehacker.com

#### Cues

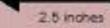
- \* Main ideas
- \* Questions that connect points
- \* Diagrams
- \* Prompts to help you study

WHEN: After class during review

#### Notes

- \* Record the lecture here, using
  - \* Concise sentences
  - \* Shorthand symbols
    - \* Abbreviations
      - \* Lists
- \* Skip lots of space between points

WHEN: During class

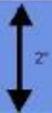


6 inches

#### Summary

WHEN After class during review

- \* Top level main ideas
- \* For quick reference



# **Essential Question:**



How can we stay safe in a laboratory environment?

# Lab is a Privilege

Who is responsible for safety?



# Be Prepared for Lab



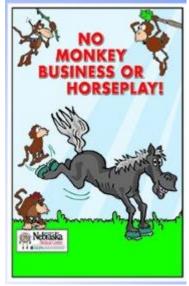
#### What NOT to wear:

- Dangling jewelry
- Baggy sleeves
- Loose long hair
- Open-toed shoes

#### What to wear:

- Goggles are required when working with heat, glass or chemicals
- Closed toe shoes
- No baggy clothes or dangly jewelry

# Act Responsibly







### Follow Lab Instructions

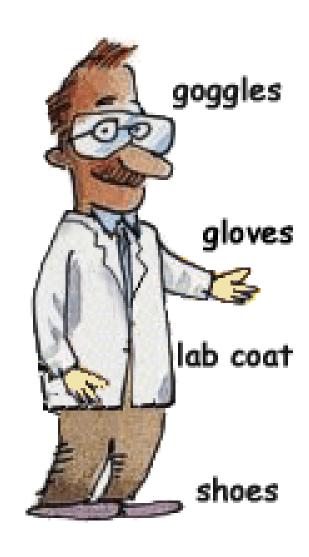
#### Student Reads Lab Manual

Unorthodox move stuns professor, classmates

Bowling Green Ky.- In an unexpected nove late Sunday night, Jim Daniels emoved his Bio 121 lab Manual from ne shelf and read it before coming to Daniel's professor, Dr Stoke expressed "surprise. pleasant surprise upon learning of the unusal technique." I am bor

- Read all instructions before performing the lab.
- Get permission before starting the lab
- And <u>before</u> handling the equipment.

## Personal Safety Equipment



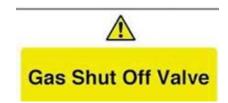
## Safety Features and Equipment

 Know the location of classroom safety equipment.



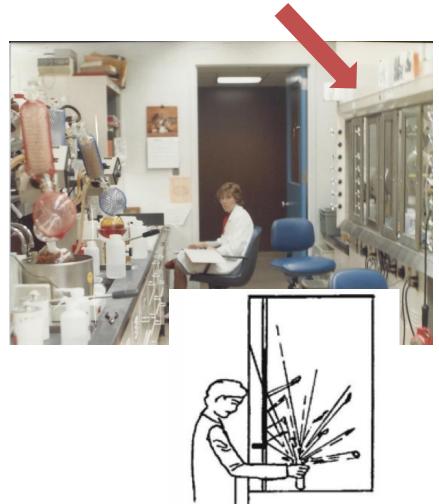








## Fume Hood



PROPER VIEWING SASH POSITION **WHAT** is it? A local ventilation system.

**WHY** use it? To protect yourself from toxic fumes and dust.

**How** do we use it?

#### Materials Needed for Lab

- Lab Sheet
- Pencil or pen
- Lab notebook
- Lab materials





# Handle Glassware Safely

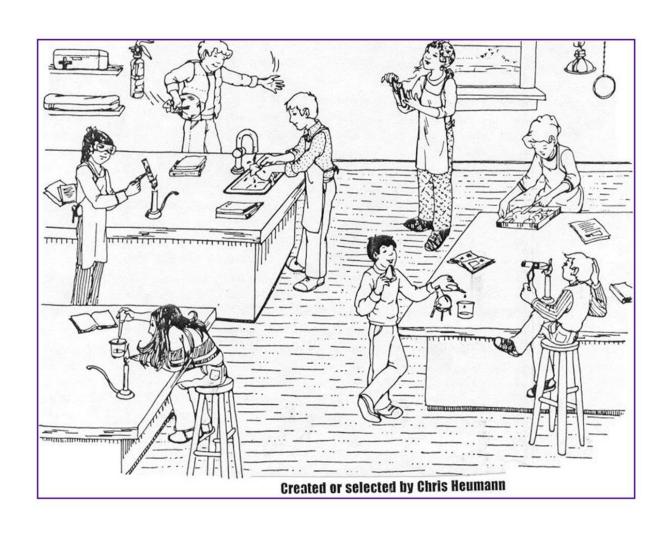
- Notify the teacher of any spills or breakages.
- Report all accidents or injuries however small.
- Fire burns. Keep all flammable stuff away from flames or heat.

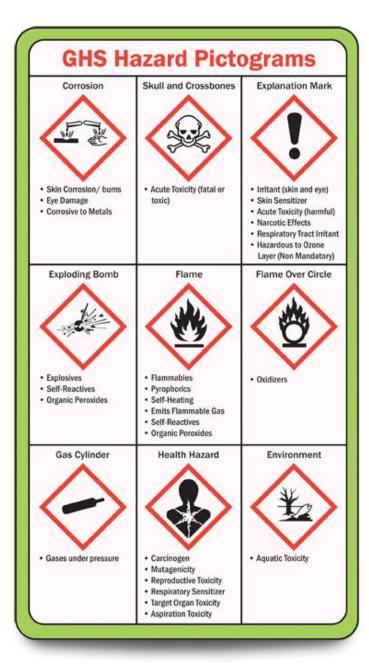






### What is wrong with this picture?





#### Read Labels

- Labels tell you what is in the can or bottle.
- **Pictograms** communicate specific information about the hazards of a chemical.

### How to use the eye wash station



- Turn on the water.
- Hold your eyes open wide
- Flush with the water
- 20 minutes
- Get medical attention afterwar.

### How to use the fire extinguisher



Only the teacher uses the fire extinguisher!
Remember the acronym PASS:

Pull the silver ring.

Aim the wand.

Squeeze the trigger.

Sweep back and forth.

## Wafting is the way...





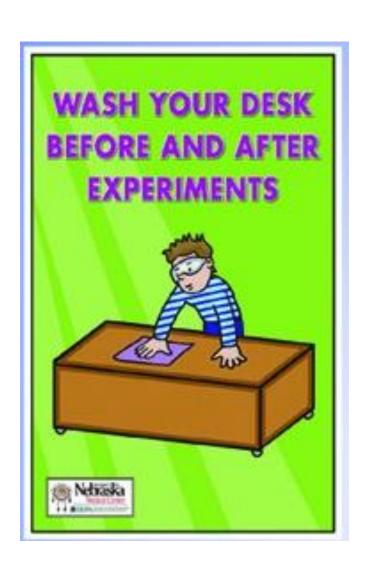
# Waste Disposal





**Use designated Disposal Stations** 

### Cleaning Up Your Bench



- Turn off gas and water, disconnect electrical devices.
- Return all materials to their proper place.
- Dispose of stuff as directed by your teacher.
- Wipe down the work area.

### Use Heat Carefully



http://scienceportfolio1p1.wikispaces.com/

- Hot and cold glass looks the same! Use caution when picking up glassware.
- NEVER use the Bunsen burner until you are trained.
- Tie back your hair and loose clothing.