

What are lab and school safety procedures?

Mr. M. Gonzalez

Do Now

- Read “Safety in the Laboratory.”
- Sign and date the bottom where it says, “Safety Contract.”
- Put the sheet in your portfolios as the first page. If you put it in a sheet protector it will not rip out.

H.W.

- Directions: Using the figure of lab activities to match what the children are doing with the safety symbols on the following two pages.
- Use the number by each student/scenario on the paper to complete the following on the worksheet:
 - State whether it's a problem or not,
 - Give an explanation of problem or not problem,
 - Name of Safety Symbol that might pertain if problem.

Announcement

Harbor SEALS Interest Meeting Tomorrow,
Wednesday, After School until 5:45



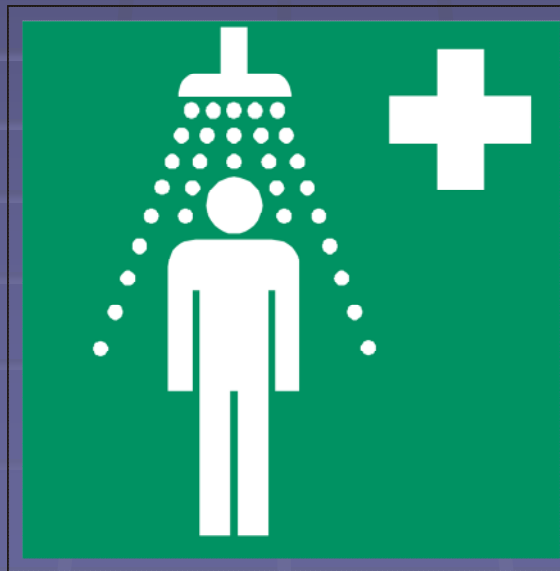
- Marine Biology Projects
- Advanced techniques
- Field Trips
- Environmental Monitoring
- Job Fairs
- Internships
- Special Projects
- Citizen Science

Emergency Scenarios

- Scenario 01. A student is using a pipette to add acid to his tank and is aiming it in the direction of other students.
- What would you do?
- Scenario 02. You curse at him which causes him to ignore you and he continues when suddenly he squirts some out by mistake and it lands in your eye.
- What would you do then?

Lab Emergencies

What are some examples of what can go wrong in a science lab?



<http://0.tqn.com/d/chemistry/1/0/L/1/1/safety-shower-sign.jpg>

Lab Emergencies

What are some examples of what can go wrong in a science lab?

Get cut with a sharp object.

Inhale a toxic chemical.

Get burned with fire or a chemical.

Slip and/or fall.

Ingest toxic chemicals or organisms.

Class Discussion

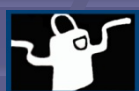
- What are the people in the lab drawing and story doing wrong or right? Explain.
- What do lab safety signs tell us about things we might encounter in the lab?

Maintaining safety

- A **safety symbol** is a symbol that warns you about a danger that may exist from chemicals, electricity, heat, or procedures you will use.



Sharp Object Safety This symbol appears when a danger of cuts or punctures caused by the use of sharp objects exists.



Clothing Protection Safety This symbol appears when substances used could stain or burn clothing.



Eye Safety This symbol appears when a danger to the eyes exists. Safety goggles should be worn when this symbol appears.



Chemical Safety This symbol appears when chemicals used can cause burns or are poisonous if absorbed through the skin.

Scenario 03

- A student is working with dangerous bacteria on a lab bench. He forgets to clean the table surface. Later that day, another class enters the room and a group of students sit at the table. One of the students puts their hand on the table and then reach for some gum which they put in their mouth. Later that night, the student gets a bad stomach ache.
- What are different ways this could have been prevented?

Scenario 04

- All the students are engaged in an activity that involves using glassware. A student walks in late and didn't hear the instructor's instructions. (S)he proceeds to join a group and starts distracting others for attention. At that moment, the student drops a glass container on the floor. It doesn't make a loud sound but it does break and there are pieces on the floor.
- Create Basic Emergency Action Plan (next slide)

Basic Emergency Action Plan

- Directions. Come up with a flow chart of actions you, other students, and the instructor should take for the previous situation.
- Use the flow charts given to you.

EMERGENCY B A S I C S

- Stop, Think, Act.
- LET THE INSTRUCTOR KNOW.
- First Aid kits are behind my desk.
- A fire extinguisher is in the front of the class and right outside the door.
- Being safe doesn't necessarily mean that you are not following the rules, it could be the fool next to you who makes it unsafe for you.

Scenario 05

- The building you're in is on fire. The alarm sounds to alert you. Your class begins to dismiss and you start going down the stairs. The people around you are laughing and joking around while a person over the PA system is warning everyone not to use the stairwell you're using because the fire is on the 1st floor below you. You don't hear the message and continue to go down the stairs only to find students erratically running back up and tripping over others. Before you know it you're trapped under 5 other people.
- What should you have done?

EMERGENCY B A S I C S

- In the event that the building needs to be evacuated you must remain silent until all people around you including yourself are safe.
- If you need help, say so!
- If you don't know how to use a tool or do something don't hesitate to ASK.

LISTEN TO DIRECTIONS!

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