



Biological Laboratory Safety



TEKS

B.1A Demonstrate safe practices during laboratory and field investigations

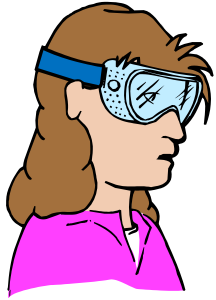
Prerequisite Questions

- What does it mean to be safe?
- List some unsafe behaviors...

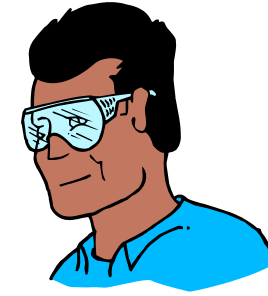
General Expectations

- **FOLLOW ALL INSTRUCTIONS GIVEN BY THE TEACHER!** (most of the answers on the safety quiz involve telling your teacher when a mishap occurs)
- **NO HORSEPLAY**
- **NEVER EAT OR DRINK WHILE EXPERIMENTING**
- **KEEP YOUR WORK AREA CLEAN AND UNCLUTTERED**





Dress Code



- Wear safety goggles for the entire experiment over your eyes.
- Wear an apron to protect your clothes
- Tie back long hair and dangling sleeves.
- Take off loose and long jewelry.
- Wear closed toed shoes.

First Aid



- Report all accidents-big or small to the teacher.
- Know where the safety shower, eye wash station, and fire blanket/extinguisher are located.
- Know where the fire exit is located.
- Know the location of the first aid kit.



Chemical Safety



- Always point containers of open chemicals (beaker, test tubes, etc.) away from yourself and others.
- Never touch, taste or smell anything unless instructed by the teacher.
- Use CAUTION when pouring liquids (especially clear liquids)
- Use CAUTION when working with acids and bases.
- Ask the teacher about how to dispose of waste.

Using Glassware Safely

- If glassware is chipped or cracked, notify the teacher.
- If you break glass, notify the teacher
- DO NOT pick up the broken pieces.
- Glass is cheap - Do not risk cutting yourself.



Sharp Instruments

- Handle sharp instruments with care.
- Know where the blade is at all times when handling sharps.
- Cut everything on a table/countertop, not in your hand.



Application of Knowledge

What is the most important safety feature in this classroom?

Think about your answer for 30 seconds.

- Be ready to share...

Lab Accident Photos

- Take Lab Safety SERIOUSLY!

Warning:

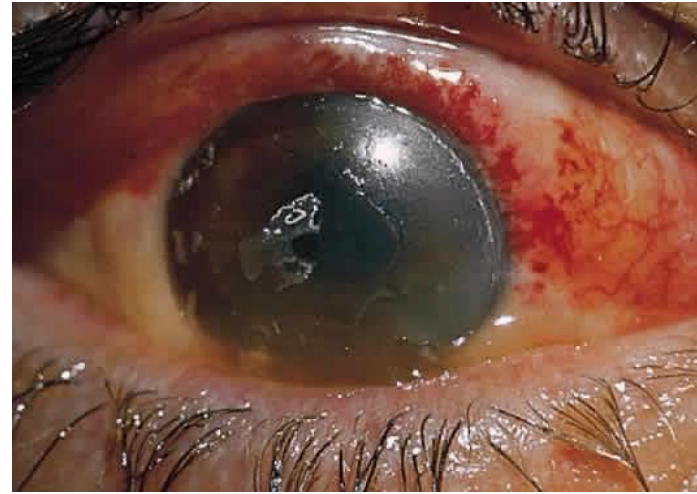
Disturbing images coming...

Chemical Burns

- Strong Base Burn



- Strong Acid Burn



Contact lens melted to eye

Heat Burns

First Degree



Second Degree



Third Degree



Glass/Scalpel Cuts



Horseplay and Broken bones



Concept Mastery Questions

- Why is it important to be safe in a science lab setting?

Activity: Safety Scavenger Hunt

- You will be given 3 minutes to move around the classroom and record as many of the safety features that you can find on your lab map.
- We will discuss safety more after the lab activity.

The MOST Important Question

- What is the most important safety feature in this science classroom?
- Answer: ??????

The MOST Important Question

- What is the most important safety feature in this science classroom?
- Answer: **YOUR BRAIN!!!!!!!!!!**