## LAB SAFETY & FIRST AID

Biology labs should be interesting and informative, but most importantly they need to be safe. Because biology labs often manipolate living organisms, there are several chemicals and pieces of equipment that can be dangenous if used improperly. The following are some basic safety guidelines common to most immudacency biology labs.

### Pre-lab preparation.

 Rand and understand the lab materials. The most important step a student can take is to be well proposed and familiar with what well be coviered in lab fire each sevelon. Lack of proposition makes take take longer to complete properly. Uncertainty can easily lead to carellesings and acquidents, larving to redo work is always time consuming.

## - Specific lab safety guidelines

- No food or drink in the lab at any time. Chemicals someone else used and didn't clean up properly can get on your food.
- Do not apply cosmetics or contact lenses. You swilly don't want to put strange chamicals into your even.
- Keep the lab bench clear of unnecessary stoms (e.g., books, laytops, and cell phones).
- Meyer touch a but plate to determine its temperature.
- Test tobes that are being bound should be aimed away from you and others.
- Wear appropriate gloves, goggles, and lab costs when required.
- Dispose of all chemicals, specimens, and sharp objects/books (e.g., weatpols and broken glace) in designated containers. Discussion sharp objects have injured many juniors.
   Long heir should be the back.
- Wear appropriate clothing. It shouldn't be too loose and should cover most of your body.
   Almore most closed-too shore—never sandals.
  - Wash hands with soup and water after every lab (and possibly multiple times during a lab, depending on the activity) so you don't take altermicals home with you.
  - Know the location of fire extinguishers, fire blankets, gas shotelf values, fome boods, safety showers, eye washes, and first aid lifts and bow to use them.
- Fire extinguishers come in several different types and their effectiveness depends on what is burning. Only trained personnel should handle fine extinguishers.
- Fire blankets are used when a person's clothing is on fire. They are used to smother the
  fire by wrapping a person inside one.
- Can shateff values are located in particular locations (usually near fire extinguishers).
   In case of a gas fire, gas to the entire room can be shut down quickly.
- Fund boods are introded to protect the user from chemicals inside the bood. Room air is polled into the broad and expelled through special chemical somethers to detentify and protect assimt without exhaust oils.
- Safety showers not intended to wash away larger chemical spills on a person just like taking a shower at home chans away diet.
- Eye without are located more contain winds and are used to require water into the eyes and
  wards observed. from them. Eyes are very fragile and extra case should be taken to avoid
  getting characters in them. One should never gut gloved hands to the face, if your hands
  need rectaction, your face will too!

### First side

- Labs are required to have a first aid kir, however, students will not normally administer first aid to another student.
- All accidents, regardless of severity, should be reported immediately to the lab instructor.
- These guidelines are for the instructor and injured student, in all cases of severe injury and/or intense pain, the instructor should immediately contact medical professionals.

#### Specific injury recommendations

- Small cut: In consultation with the instructor, wash the cut with water and then use topical antibiotic sintments and bandages from the first aid kit.
- Large cut: In consultation with the instructor, apply pressure to the injured area to stop
  the bleeding; immediately contact medical professionals.
- Small born: In consultation with the instructor, apply cold water until the pain subsides,
  if necessary, contact medical professionals.
- . Large basic in consultation with the instructor, immediately contact mode of professionals.
- Eye injuries: In consultation with the instructor, the eye wash station should be used for chemical or fluid splashes. All eye injuries are potentially serious; thus, immediate contact with medical professionals is recommended.
- Additional injuries or medical conditions of many kinds and severity can occur in laborate shelp can anywhere check these the best to be safe. In consultation with the instructor, modical professionals should be contacted.

## **ESSENTIAL METHODS & TOOLS**

## SCIENTIFIC METHOD

- Children learn by experimentation: they learn about the world through how they interact with it. When they touch a hot burner on a stove, it have.
  - The shild then most likely speculates that if he she touches hat stores again, a horse will contex
- The scientific method works the same way. Scientists observe phenomena and formulate testable, repeatable hypotheses about the world they observe.
  - Hypotheses that are untestable are of little use in science.
  - Observations that are not repeatable cannot be used to predict future events.
- The selectific method is formalized into four distinct stages:
- Observation: Viewing or examining events as well as the circumstances of the event.
- 2. Wypethesis: A prediction or educated guess about what is being observed.
- Experiment: A test of the hypothesis, usually involving a manipulation of some variable that might affect the observation.
  - a. Treatment: The part of an experiment where a variable is manipulated.
  - Control: The part of an experiment whose no manipulation takes place (i.e., a baseline).
- 4. Theory: A prediction that is obselved by at least one (but usually many) experiments.
- There are specific mathematical tests for comparing treatments and controls.
   Flavor are known as statistics, with different tests depending upon what data has been collected.
- Methods used to test hypotheses should be repeatable. Can other people carrying out the same experiment get the same results?
  - Introductory biology lab exercises involve doing experiments in which data about the living world can be recombed and analyzed to increase our understanding of how science actually resches its conclusions.

#### MEASUREMENTS

- Scientists make two different types of measurements:
- Qualitative measurements: A sylaping description characterizing an important aspect of a phonomenous (e.g., a bear displayed to touth appreciately).
- Quantitative measurements: A minimized description of an aspect of a phomonamies (e.g., a hear displayed its tooth 4 times during a 30-minute observation period while surveylians at 52 decideb.
- · There are two major systems of measurement:

Characteristic Measured	American Standard	Metric System		
Smight	inches/feet/predictables	centimeters meters tidemeters		
Volume	cups galloos hamels	millititers lines bectoliters		
Sample of the Control	Fabrusheit (T)	Coloni (*CoKoloni (K)		
respectable.	construct the second	Committee of the Commit		

Scionce almost exclusively uses the metric system.

#### Metric System

The metric units all have a base unit of measure (e.g., meter, liver, and gram), and when appropriate, also have a greeky believe.

Metric Profixes					
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# **Bio Lab Basics Quickstudy Academic**

**N Colangelo** 

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