Lockers:
13, 14, 17, 23, 24, 32, 33, 34, 43, 44, 53, 54, 59, 62, 63, 71

Chemistry 51 Lab Equipment

Tonight
- Make sure you have all of the equipment on the list
- Make sure your glassware is clean

Bunsen Burner

Bunsen burners are used for the heating of nonvolatile liquids and solids.

Beaker

Beakers hold solids or liquids that will not release gases when reacted or are unlikely to splatter if stirred or heated.

Buret

Burets are used for titration and are long graduated pieces of glass

Beaker Tongs

Beaker tongs are used to move beakers containing hot liquids

Buret Clamp

Buret clamps are used to burets – long graduated tubes used in titration.

Clay Triangle

The clay triangle is used as a support for crucibles when being heated over a Bunsen burner.

Erlenmeyer Flask

Erlenmeyer flasks hold solids or liquids that may release gases during a reaction or that are likely to splatter if stirred or heated.

Crucible

Crucibles are used for heating certain solids, particularly metals, to very high temperatures.

Evaporating Dish

The evaporating dish is used for the heating of stable solid compounds and elements.

Crucible Tongs

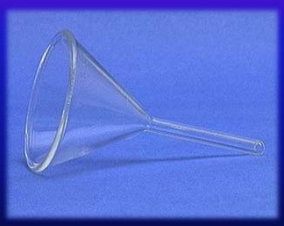
For handling hot crucibles; also used to pick up other hot objects. NOT to be used for picking up beakers!

Forceps

Forceps (or tweezers) are used to pick up small objects.

Funnel

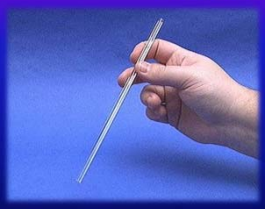
A funnel is used to aid in the transfer of liquid from one vessel to another.



Hot Hand

Hot hands are used to move beakers containing hot liquids

Glass Stir Rod



A glass rod is used to manually stir solutions. It can also be used to transfer a single drop of a solution.

Pipette

A pipette is used to transfer a small volume of liquid (less than one mL).

On top of some pipettes are a "rubber bulb"

Graduated Cylinder

A graduated cylinder is used to measure volumes of liquids.

Rubber Policeman

Rubber policemen are used on glass stirring rods to assist in the movement of materials

Spatulas

Spatulas are used to dispense solid chemicals from their containers.

Chemicals should never be transferred with your bare hands.

Test Tube Brushes

Test tube brushes are used to clean test tubes and graduated cylinders.

Forcing a large brush into a small test tube will often break the tube.

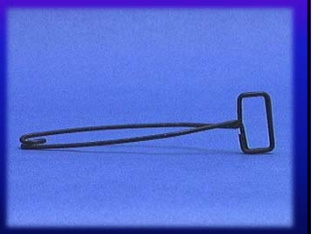
Strikers

Strikers are used to light Bunsen burners.

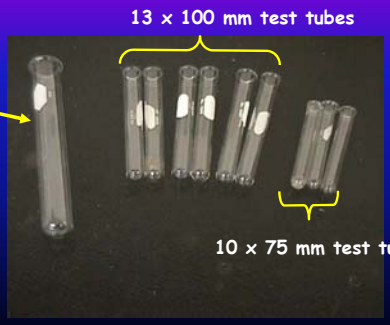
The flints on strikers are expensive. Do not operate the striker repeatedly just to see the sparks!

Test Tube Holder

A test tube holder is useful for holding a test tube which is too hot to handle.



Test Tubes



Test Tube Racks

Test tube racks are for holding and organizing test tubes on the laboratory counter. Plastic racks may melt in contact with very hot test tubes.

Ring Stands

Ring Stands are a safe and convenient way to perform reactions that require heating using a Bunsen burner.

Rubber Stoppers

Rubber stoppers are used to close containers to avoid spillage or contamination.

Containers should never be heated when there is a stopper in place.

Iron Rings

Iron rings connect to a ringstand and provide a stable, elevated platform for the reaction.

Spot Plates

Spot plates are used when we want to perform many small scale reactions at one time. We will use these many times during the year.

Utility Clamps

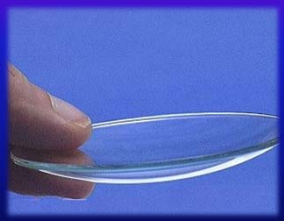
Utility clamps are used to secure test tubes, distillation columns, and burets to the ringstand.

Water Bottle

A water bottle has a spout that delivers a wash solution to a specific area. Distilled water is the only liquid that should be used in a wash bottle.

Watch Glass

A watch glass is used to hold a small amount of solid, such as the product of a reaction.



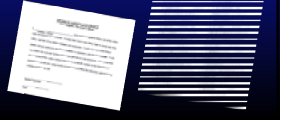
Wire Gauze

Wire gauze sits on the iron ring to provide a place to stand a beaker.

On older wire gauze, the white material is asbestos!

Due Next Class Meeting

- Buy Safety Goggles and bring them to lab!
- Buy Scientific Calculator
- Read Experiment #1
  - What Chemists Do: Identification and Analysis
  - Watch video at http://elearning.lamission.edu/?cat=9
- Composition Book laboratory notebook
  - Buy
  - Follow the rules on the syllabus*
  - Write up as much as possible for Experiment #1
- Turn in Safety Test*
- Turn in Safety Contract*



* See Professor Paz's website