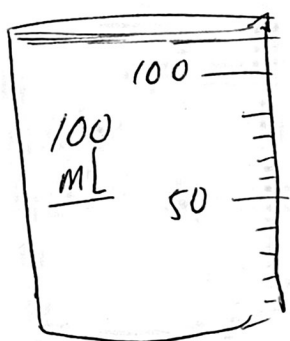


Noteset 1C - Laboratory Equipment and Supplies

The information below consists of a list of common equipment used in the chemistry lab setting.

glassware

① Beakers

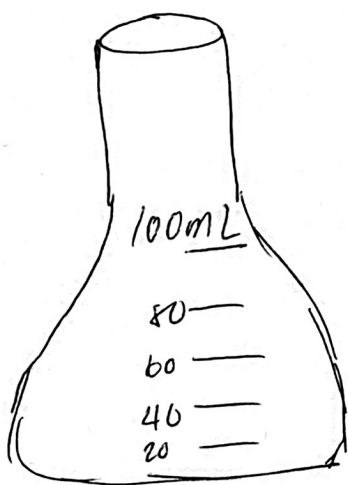


Standard Beaker

Commonly used to hold/transport/and perform reactions within.

Common sizes : 10mL, 25mL, 50mL, 100mL
200mL, 400mL, 600mL, 1000mL

② Flasks

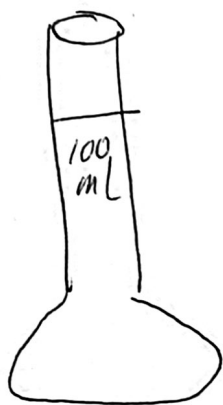
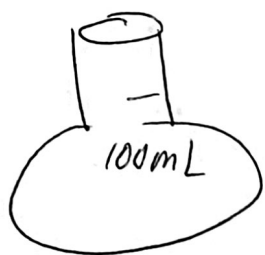


Erlenmeyer Flask

Commonly used to mix or swirl liquids to react. Prevents splashing or spilling due to having a large body and small neck.

Common Sizes : 10mL, 25mL, 50mL
100mL, 250mL, 500mL

② Flask Continued



Boiling Flask

Commonly used to heat and boil liquids in reactions. Less likely to break due to heat stress.

Volumetric Flask

Used to precisely measure liquids (to 0.1 mL for example). Only measures one volume. Not used to store liquids. Also used to dilute liquids (lower concentration)

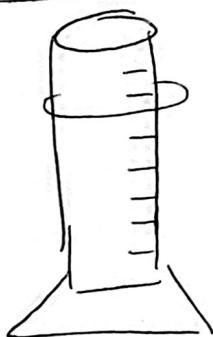
Filtering (Buchner) Flask

Used with a Buchner Funnel to filter under vacuum the results of a chemical reaction

(Common Sizes : 100 mL, 250 mL)



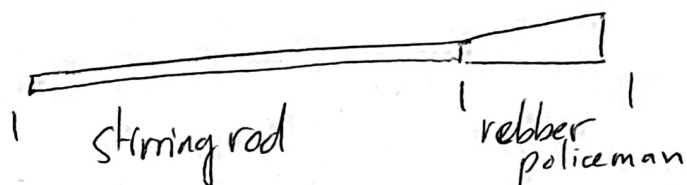
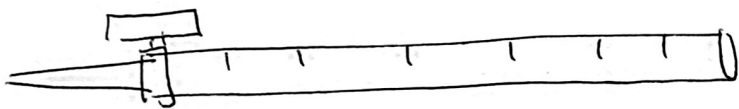
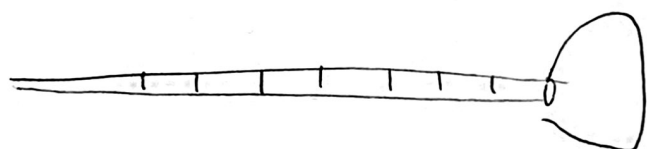
③ Graduated Cylinder



Used to measure liquids when precision is not required.

Can be plastic or glass construction
(Common Sizes) 10 mL, 50 mL, 100 mL, 250 mL

④ Misc. glassware



Volumetric Pipette

Used like a volumetric flask to measure 1 volume very accurately.
(common sizes: 10mL, 25mL, 100mL, 250mL, 500mL)

Measuring Pipette

Used like a graduated cylinder in a pipette.

Burette

Used in specialized reactions adding small amount of liquid many times

Stirring Rod / Policeman

Stirring liquids in a beaker, transferring solids.

Watch glass

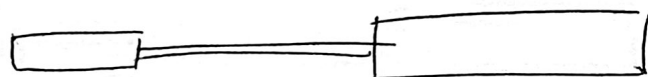
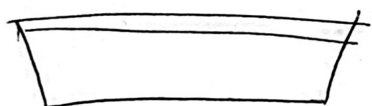
Dished cover that covers a beaker but allows a reaction to be observed.

Test Tubes

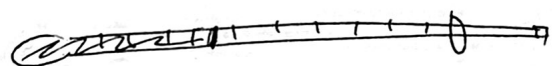
Used to hold liquids as part of reactions / to heat liquids / solids.

Performing Reactions

① Weighing Tools



② Recording Temperature



Laboratory Balance

Used to weigh and count matter in lab (electronic)

Weighing Boat

Plastic boat used to hold/transfer solids for using in reactions (plastic)

Spatula

Scoop used to transfer small amounts of solids from one container to another.

Scoopula

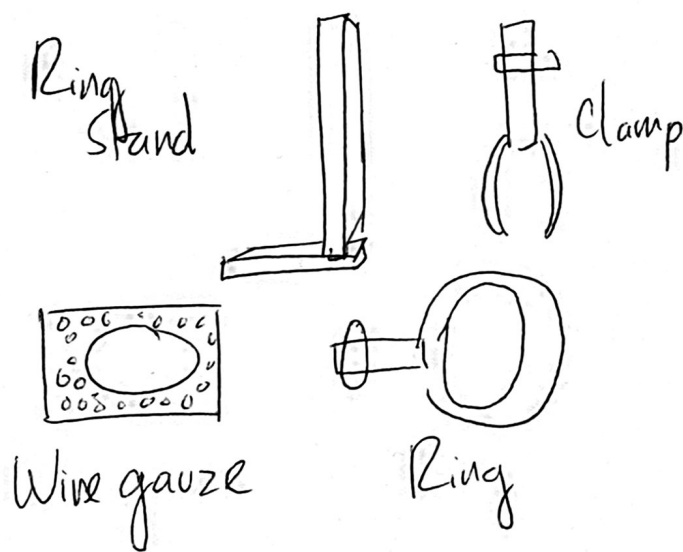
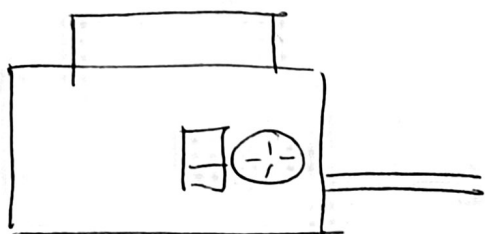
Scoop used to transfer large amounts of solids

~~Thermometer~~

Thermometer

Used to record temperature (and heat) of matter.

③ Heating Substances



Hot Plate

Used to directly heat matter and/or perform chemical reactions

(caution: treat as hot when on/plugged in)

Bunsen Burner

Used to directly heat reactions where direct heat is needed.

(caution: very hot, do not leave gas on)

Ringstand + accessories

Used to heat with bunsen burner. Ringstand holds accessories. Ring + gauze used to hold beakers/flasks to heat. Clamps are used to hold test tubes, and burettes.