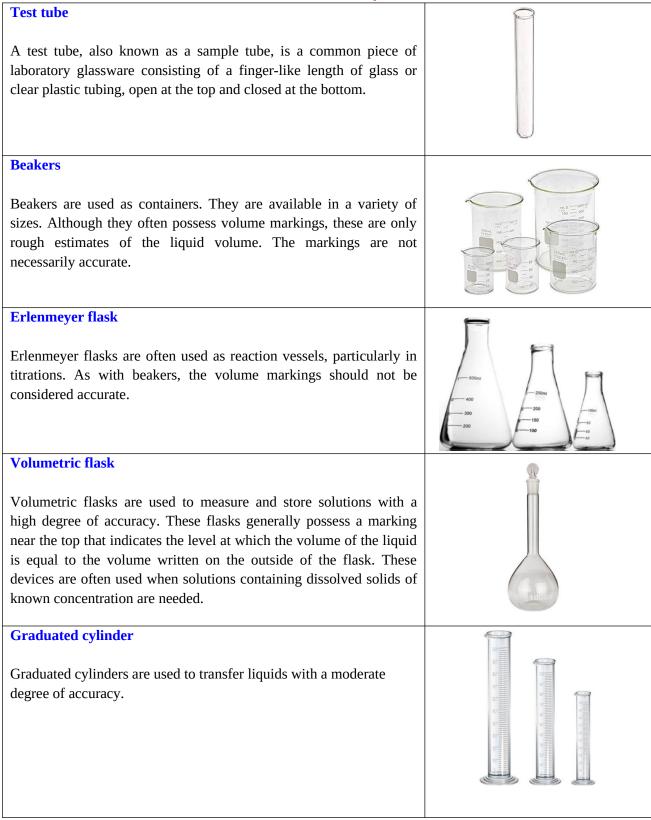
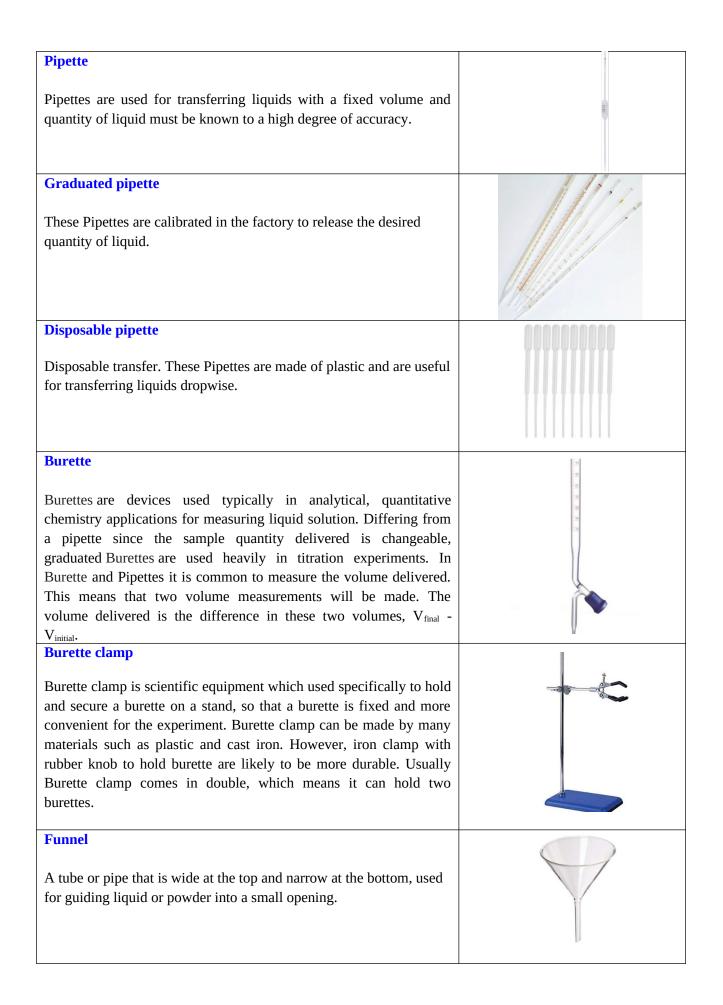
KNOW YOUR LAB EQUIPMENTS





Buchner Funnel	
A Büchner funnel is a piece of laboratory equipment used in filtration. It is traditionally made of porcelain, but glass and plastic funnels are also available. On top of the funnel-shaped part there is a cylinder with a fritted glass disc/perforated plate separating it from the funnel.	
Buchner funnel vacuum filtration setup	Buchner Funnel
Suction filtration (vacuum filtration) is the standard technique used for separating a solid-liquid mixture when the goal is to retain the solid (for example in crystallization). Similar to gravity filtration, a solid-liquid mixture is poured onto a filter paper, with the main difference being that the process is aided by suction beneath the funnel.	Filter-Vac
Clamp It is used to hold round laboratory glassware, such as a beaker, and flasks, etc. This type of clamp is made from stainless steel.	
Test tube brush	No.
Test tube brush or spout brush is a brush used for cleaning test tubes and narrow mouth laboratory glassware, such as graduated cylinders, burettes, and Erlenmeyer flasks.	e e e e e e e e e e e e e e e e e e e
Test tube holder	
A test tube holder is used to hold test tubes. It is used for holding a test tube in place when the tube is hot or should not be touched.	
Test tube stand	
Test tube racks are laboratory equipment used to hold upright multiple test tubes at the same time.	12335555
Bunsen burner	
A small adjustable gas burner used in laboratories as a source of heat.	

Petri dish A petri dish is a small dish shaped like a cylinder.	
Glass rod A glass stirring rod, glass rod, stirring rod or stir rod is a piece of laboratory equipment used to mix chemicals and liquids for laboratory purposes. They are usually made of solid glass, about the thickness and slightly longer than a drinking straw, with rounded ends.	
Graduated Dropper A dropper or Pasteur pipette is an instrument used to transfer small quantities of liquid.	
Tongs Tongs are a type of tool used to grip and lift objects instead of holding them directly with hands.	
Utility clamp A utility clamp is a laboratory apparatus resembling a pair of scissors. The screw in the middle works as the wide adjustment of 2-prong. It is composed of 3 parts: 2-prong adjust, metal rod, and clamp down (attach the clamp to the ring stand for adjust the height).	
Spot test plate A spot plate, also called a reaction plate is a laboratory tool made either from ceramics.	Bee

Tripod for Bunsen burner	0
A laboratory tripod is a three-legged platform used to support flasks and beakers.	
Wash Bottle A wash bottle is a squeeze bottle with a nozzle, used to rinse various pieces of laboratory glassware, such as test tubes and round bottom flasks. Wash bottles are sealed with a screw-top lid.	
Wire Mesh Gauze (Ceramic Centre) Wire mesh (wire gauze) is used for uniform distribution of flame heat in base of a heated body. It is made of iron wire strands with or without ceramic interior cores.	
Spatula In laboratories, spatulas and microspatulas are small stainless steel utensils, used for scraping, transferring, or applying powders and paste like chemicals or treatments. Many spatula brands are also resistant to acids, bases, heat, and solvents, which make them ideal for use with a wide range of compound.	
Round-bottom flasks Round-bottom flasks (also called round-bottomed flasks or RB flasks) are types of flasks having spherical bottoms used as laboratory glassware, mostly for chemical or biochemical work.	
Glass Condenser A condenser is an apparatus or item of equipment used to condense (change the physical state of a substance from its gaseous to its liquid state). In the laboratory, condensers are generally used in procedures involving organic liquids brought into the gaseous state through heating, with or without lowering the pressure (applying vacuum)—though applications in inorganic and other chemistry areas exist.	

Filter paper

Filter paper is a semi-permeable paper barrier placed perpendicular to a liquid or air flow. It is used to separate fine substances from liquids or air. It is used in science labs to remove solids from liquids.

Separatory funnel

A separatory funnel, also known as a separation funnel, separating funnel, or colloquially sep funnel, is a piece of laboratory glassware used in liquid-liquid extractions to separate (partition) the components of a mixture into two immiscible solvent phases of different densities.

Filtering flask

A filtering flask is a piece of labware used to separate solids from fluids in filtration operations. To filter substances, the flask is used with a filtering funnel, such as a Buchner funnel, which incorporates a fritted glass disc or perforated plate fitted with a piece of filter paper to filter particles.

Watch glass

A watch glass is a circular concave piece of glass used in chemistry as a surface to evaporate a liquid, to hold solids while being weighed, for heating a small amount of substance and as a cover for a beaker. The latter use is generally applied to prevent dust or other particles entering the beaker; the watch glass does not completely seal the beaker, so gas exchanges still occur.

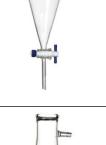
Fusion tube

Fusion tube is laboratory tube used much in the same way as boiling tubes expect not being as large and thick walled. A fusion tube made of thinner glass because it is intended to be broken into a container of water at the end of the fusion tube.

Mortar and pestle

Mortar and pestle are implements used since ancient times to prepare ingredients or substances by crushing and grinding them into a fine paste or powder in the laboratory.











Reagent bottle	2
Reagent bottles, also known as media bottles or graduated bottles, are containers made of glass, plastic, borosilicate or related substances, and topped by special caps or stoppers and are intended to contain chemicals in liquid or powder form for laboratories and stored in cabinets or on shelves.	
Litmus and pH paper	BLUE
Litmus or pH paper contains a chemical that changes color as it makes contact with an acid or base. The paper will turn red in acids and blue in bases.	PED PH
Sample containers	
Sample containers are very useful for storing chemicals solid samples. Very useful for transport purposes as it allows leak proof and airtight closures.	
Desiccator	
Desiccators are sealable enclosures containing desiccants used for preserving moisture-sensitive chemicals. A common use for desiccators is to protect chemicals which are hygroscopic or which react with water from humidity.	
Crucible	
A crucible is a ceramic or metal container in which metals or other substances may be melted or subjected to very high temperatures.	50 ml
Kipp's apparatus	
A laboratory apparatus for producing a gas, usually hydrogen sulphide, by the action of a liquid on a solid without heating.	

Mechanical Shaker It is a piece of laboratory equipment used to mix, blend, or agitate substances in a bottle or flask by shaking them. **Digital Balance** The digital mass balances in the General Chemistry labs are very sensitive instruments used for weighing substances to the milligram (0.001 g) level. Please treat them with care. Use containers when weighing chemicals and always weigh objects at room temperature. Keep the draft shields closed. Do not jar the instruments or change the levels. Always clean the area around the pan with a sable brush after use and inform the lab staff if any liquids or solids spill onto the balance. **Magnetic Stirrer** A magnetic stirrer is a device widely used in laboratories and consists of a rotating magnet or a stationary electromagnet that creates a rotating magnetic field. This device is used to make a stir bar, immerse in a liquid, quickly spin, or stirring or mixing a solution. Water bath A water bath is laboratory equipment made from a container filled with heated water. It is used to incubate samples in water at a constant temperature over a long period of time. Vacuum Pump It can evacuate chemically aggressive gases and vapors. **Digital Colorimeter** A colorimeter is a light-sensitive device used for measuring the transmittance and absorbance of light passing through a liquid sample. The device measures the intensity or concentration of the color that develops upon introducing a specific reagent into a solution. **Digital Conductometer** A conductivity meter measures the electrical conductivity in a solution. It has multiple applications in research and engineering.

Digital pH meter

A pH meter is a scientific instrument that measures the hydrogen-ion activity in water-based solutions, indicating its acidity or alkalinity expressed as pH.

Digital Potentiometer

A potentiometer is an instrument for measuring voltage by comparison of an unknown voltage with a known reference voltage. If a sensitive indicating instrument is used, very little current is drawn from the source of the unknown voltage. Since the reference voltage can be produced from an accurately calibrated voltage divider, a potentiometer can provide high precision in measurement.

