بِسۡمِ ٱللَّهِ ٱلرَّحۡمَٰنِ ٱلرَّحِيمِ

Practical of General Chemistry

Department :- Radiology Techniques

Class:1st year

Assist. Lect. :- AHMED IBRAHIM ALYASIRY

- Exp:. 2
- Name of experiment :. Basic Laboratory Glassware and Equipment.

- Purpose of experiment: Learn about some of the glassware and laboratory equipment

generally, the laboratory equipment's are made of glass Some are plastic and others are metallic.

Basic Glassware and Equipment

Equipment Type	Description of Use	Representative Image
Balance	Used for measuring mass	
Beaker	Used to hold, mix, and heat liquids	
Beaker tongs	Used to pick up beakers	
Bunsen burner	Frequently used as a heat source in the absence of flammable materials	

Equipment Type	Description of Use	Representative Image
Buret	Used for dispensing an accurate volume of a liquid	
Clay triangle	Used to support a crucible during heating	
Crucible	Used for holding chemicals during heating to very high temperatures	
Crucible tongs	Used to hold crucibles	
Erlenmeyer flask	Used to hold and mix chemicals. The small neck is to facilitate mixing without spilling	

Equipment Type	Description of Use	Representative Image
Evaporating dish	Used to heat liquids for evaporation	
Forceps	Used to pick up or hold small objects	
Funnel	Used to transfer liquids or fine-grained materials into containers with small openings. Also used for filtration	
Graduated cylinder	Used to measure a precise volume of a liquid	
Mortar and pestle	Used to crush and grind materials	

Equipment Type	Description of Use	Representative Image
Pipet bulb	Used to draw liquids into a pipet	
Ring clamp	Used with a ring stand to hold glassware, such as a beaker or a funnel	
Ring stand	Used to hold or clamp laboratory glassware and other equipment in place, so it does not fall down or come apart	
Scoopula	Used to transfer solids	
Stirring rod	Used for stirring and mixing	

Equipment Type	Description of Use	Representative Image
Striker	Used to light a Bunsen burner	
Test tube	Used to hold and mix liquids	
Test tube clamp	Used to hold a test tube, particularly when hot	
Test tube rack	Used to hold several test tubes at one time	
Thermometer (digital or alcohol, *not* mercury)	Used to measure temperature in Celsius	

Equipment Type	Description of Use	Representative Image
Utility clamp	Used to secure glassware to a ring stand	
Volumetric flask	Used to prepare solutions to an accurate volume	
Volumetric pipet	Used to measure small amounts of liquid very accurately. Never pipet by mouth! Use pipetting aids	
Wash bottle	Used to rinse pieces of glassware and to add small quantities of water	

Equipment Type	Description of Use	Representative Image
Watch glass	Used to hold solids while they are being weighed or to cover a beaker	
Wire gauze	Used to support a container, such as a beaker, on a ring stand while it is being heated. May have a fiberglass or ceramic center	