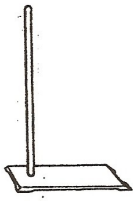
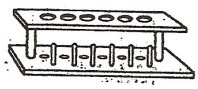
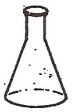
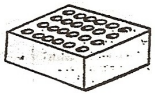
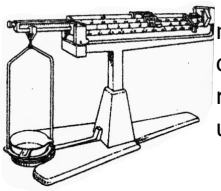
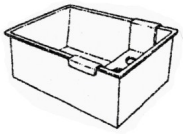
Laboratory Equipment and Skills: Recognizing Lab Equipment

DESCRIPTION	EQUIPMENT	USE
vertical metal rod heavy base	 RING STAND	support for rings, clamps or other lab equipment
iron ring screw fastener variety of diameters	 IRON RING	Support device for beakers, flasks, or other lab equipment
open mouth container straight sides specific volumes are marked on container	 BEAKER	container may be used like cup can be heated
vertical glass hollow cylinder Increment markings	 GRADUATED CYLINDER	makes precision volume measurements
glass or plastic	 FUNNEL	pouring liquids into buret or flask holding filter paper
metal clamp screw fastener	 TEST TUBE CLAMP	holds test tubes or other equipment
glass or plastic variety of diameters	 TEST TUBE	container glass versions can be heated
wire grid or made of plastic/wood	 TEST TUBE RACK	Holds test tubes in upright position
thick metal wire spring handle	 TEST TUBE HOLDER	allows for test tubes to be transferred or moved without touching with hands

DESCRIPTION	EQUIPMENT	USE
glass has specified volume etched line	 VOLUMETRIC FLASK	Preparation of solutions Precision volume measurements
glass top is smaller than base indicated volume	 ERLENMEYER FLASK	container less evaporation than beaker can be heated
glass rounded sides indicated volume	 FLORENCE FLASK	container can be heated
metal clamp flexible clips holds 2	 BURET CLAMP	holds burets when conducting volumetric experiments
plastic or ceramic many small bowls	 WELL PLATE	holds liquids in micro experiments
wire screen has ceramic disk to dissipate heat	 WIRE GAUZE	spread heat of flame cooling heated container
triangular wire frame with clay insulators	 CLAY TRIANGLE	supports items being heated on ring stand
ceramic dish	 EVAPORATING DISH	holds small amounts of liquids. can be heated
metal	 TONGS	pick up and hold beakers

DESCRIPTION	EQUIPMENT	USE
metal and ceramic highly delicate		most accurate method to determine mass requires experience to use
	TRIPLE BEAM BALANCE	
plastic at least a foot deep		holds water, gas collection bottles, and gas collection tubes
	PNEUMATIC TROUGH	
glass funnel shape		designed to pour liquids into burets
	BURET FUNNEL	
metal file		used to etch glass used for filing
	TRIANGLE FILE	
rubber		seals flasks and bottles
	STOPPERS	
porcelain jar with lid		allows small samples to be heated to extreme temperatures
	CRUCIBILE AND LID	
brush with wire handle		used for cleaning lab equipment
	TEST TUBE BRUSH	
glass rod	 GLASS STIRRING ROD	to stir liquids without transfer of heat used in pouring liquids
made of metal or porcelain		transfer solid chemicals for weighing
	SPATULA	
glass marked with inverted mL scale used to collect and measure volumes of gas from experiments	 GAS COLLECTION TUBE	
	 THEROMETER	glass with alcohol or mercury inside plastic coating measures temperature of gas or liquid samples

DESCRIPTION	EQUIPMENT	USE
squeezable plastic bottle with angular tip		dispenses distilled water
	WASH BOTTLE	
metal tweezers		pick up or hold small objects
	FORCEPS	
curved glass		can cover beakers used in evaporating small amounts of liquid
	WATCH GLASS	
metal clamp with finger grips		clamps together rubber hoses
	PINCH CLAMP	
glass tip with rubber bulb		transfer small amounts of liquid
	DROPPER	
metal heating device connected to gas outlet without gas control valve		Produces medium heat flame, the standard lab burner
	BUNSEN BURNER	
metal heating device connected to gas outlet with gas control valve		produces very high-heat flame much hotter than BUNSEN BURNER
	TIRRILL BURNER	
metal gas vent burner with broad flame catcher		produces very large high heat flame bigger flame than TIRRIL BUNER hotter flame than BUNSEN BURNER
	MEKER BURNER	
heavy porcelain dish with grinder used to grind solid chemicals to a powder	 MORTAR AND PESTLE	
	 BURET	glass marked with inverted mL scale has stopcock to control flow used for precision volume measurements