

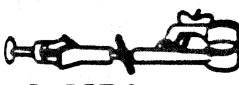











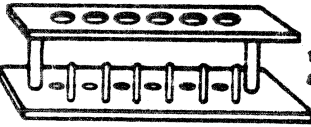


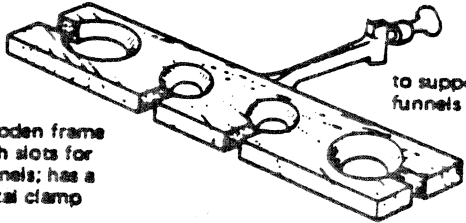
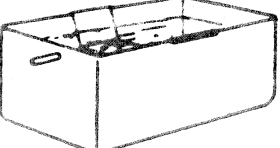

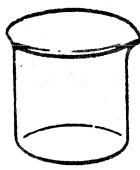
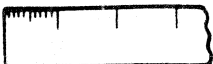
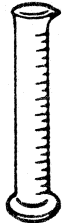

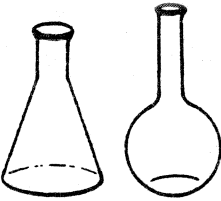




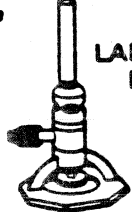

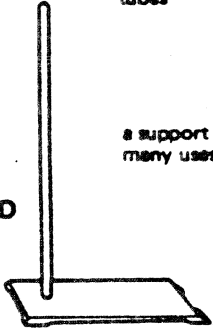
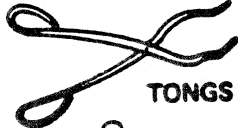
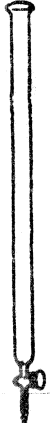





DESCRIPTION	APPARATUS	USE	DESCRIPTION	APPARATUS	USE
iron ring with screw fastener several sizes	 IRON RING	to fasten to the ring stand as a support for apparatus	brush with wire handle	 TEST TUBE BRUSH	to scrub glass apparatus
metal clamp with 1. screw fastener 2. swivel and lock nut 3. adjusting screw 4. curved clamp	 BURET CLAMP- TEST TUBE CLAMP	to hold apparatus may be fastened to the ring stand	glass rod	 STIRRING ROD	to stir combinations of materials to use in pouring liquids
heavy porcelain dish with grinder	 MORTAR AND PESTLE	to grind chemicals, to a powder	porcelain dish	 EVAPORATING DISH	as a container for small amounts of liquid being evaporated
may be of metal or porcelain	 SPATULA	to transfer solid chemicals in weighing	thick glass	 GLASS PLATE	many uses (should not be heated)
metal file with three cutting edges	 TRIANGULAR FILE	to scratch glass to file	curved glass	 WATCH GLASS	may be used as a beaker cover may be used in evaporating very small amounts of liquid
short length of rubber tubing	 RUBBER CONNECTOR	to connect parts of apparatus	glass or plastic	 FUNNEL	to hold a filter paper may be used in pouring
metal clamp with finger grips	 PINCH CLAMP	to clamp a rubber connector	glass tip with rubber bulb	 MEDICINE DROPPER	to transfer small amounts of liquid
rack; may be wood, metal or plastic	 TEST TUBE RACK	to hold test tubes in an upright position	metal	 FORCEPS	to pick up or hold small objects
squeezable plastic bottle with angular tip	 PLASTIC WASH BOTTLE	to dispense distilled water	Wooden frame with slots for funnels; has a metal clamp	 FUNNEL SUPPORT	to support funnels
galvanized iron container with rolled edge, overflow tube, and bottle shelf	 PNEUMATIC TROUGH	to hold water, gas collecting bottles, and delivery tube from gas generator	glass	 WIDE-MOUTH BOTTLE	many uses as a container

APPARATUS LIST FOR STUDENT USE

DESCRIPTION	APPARATUS	USE	DESCRIPTION	APPARATUS	USE
<p>glass</p> <p>common sizes</p> <p>100 mL</p> <p>250 mL</p> <p>400 mL</p> <p>marked on the beaker</p>	 <p>BEAKER</p>	<p>as a container, like a cup</p> <p>may be heated</p>	<p>10 centimeter (cm) ruler, plastic divided into centimeter and millimeter (mm) divisions</p>	 <p>10 CM RULER</p>	<p>to measure length</p>
<p>glass</p> <p>marked with a milliliter (mL) scale</p> <p>size divisions</p> <p>50 mL 1.0 mL</p> <p>35 mL 0.2 or 0.5 mL</p> <p>10 mL 0.1 mL</p>	 <p>GRADUATED CYLINDER</p>	<p>to measure volume</p>	<p>triangular wire frame with clay material coverings</p>	 <p>PIPETEM TRIANGLE</p>	<p>to support the crucible</p>
<p>marked on the flask</p> <p>common sizes</p> <p>125 mL</p> <p>250 mL</p> <p>500 mL</p>	 <p>ERLENMEYER FLASK</p> <p>FLORENCE FLASK</p>	<p>may be heated</p>	<p>small porcelain dish with cover</p>	 <p>CRUCIBLE AND COVER</p>	<p>to heat small amounts of solid material at high temperature</p>
<p>marked on the flask</p>	<p>ERLENMEYER FLASK</p> <p>FLORENCE FLASK</p>	<p>may be heated</p>	<p>hardened ceramic-fibered material</p>	 <p>CERAMIC-FIBERED SQUARE</p>	<p>to place under hot apparatus</p>
<p>marked on the flask</p>	<p>ERLENMEYER FLASK</p> <p>FLORENCE FLASK</p>	<p>may be heated</p>	<p>wire screen with ceramic-fibered center</p>	 <p>WIRE GAUZE</p>	<p>to spread the heat of a flame</p>
<p>glass</p> <p>several sizes</p>	 <p>TEST TUBE</p>	<p>many uses can be heated</p>	<p>metal heating device connected to gas outlet with rubber tubing</p>	 <p>LABORATORY BURNER</p>	<p>to heat chemicals in beakers or test tubes</p>
<p>metal clamp with a spring handle</p>	 <p>TEST TUBE HOLDER</p>	<p>to hold a test tube</p>	<p>metal rod upright heavy base</p>	 <p>RING STAND</p>	<p>a support with many uses</p>
<p>metal</p>	 <p>TONGS</p>	<p>to pick up and hold apparatus</p>	<p>glass</p> <p>marked with a milliliter (mL) scale and fitted with a stopcock, pinch clamp, or glass bead</p>	 <p>BURET</p>	<p>used to withdraw and measure volumes of solutions in titrations</p>
<p>glass</p> <p>marked with a milliliter (mL) scale</p>	 <p>GAS MEASURING TUBE</p>	<p>used to collect and measure the volumes of gases</p>	<p>glass</p> <p>marked off to liter capacity, with a glass stopper</p>	 <p>VOLUMETRIC FLASK</p>	<p>used in the preparation of solutions</p>
<p>metal clamp with flexible clips</p>	 <p>DOUBLE BURET CLAMP</p>	<p>to hold burets when titrating</p>			