

Laboratory Equipment and Skills:

Recognizing Lab Equipment

In the chemistry laboratory, you will be using equipment, handling materials, and performing certain unfamiliar tasks. The purpose of this section is to introduce you to the equipment and to describe some of their uses that you will need to be familiar with in this laboratory course. There will be a quiz given online that will be based on prior knowledge and this reference sheet.

DESCRIPTION	EQUIPMENT	USE	DESCRIPTION	EQUIPMENT	USE
vertical metal rod heavy base	RING STAND	support for rings, clamps or other lab equipment	glass has specified volume etched line	VOLUMETRIC FLASK	Preparation of solu- tions Precision volume measurements
iron ring screw fastener variety of diameters	IRON RING	Support device for beakers, flasks, or other lab equipment	glass top is smaller than base indicated volume	ERLENMEYER FLASK	container less evaporation than beaker can be heated
open mouth container straight sides specific volumes are marked on container	BEAKER	container may be used like cup can be heated	glass rounded sides indicated volume	FLORENCE FLASK	container can be heated
vertical glass hollow cylinder Increment markings	GRADUATED CYLINDER	makes precision vol- ume measurements	metal clamp flexible clips holds 2	BURET CLAMP	holds burets when conducting volumetric experiments
glass or plastic	FUNNEL	pouring liquids into buret or flask holding filter paper	plastic or ceramic many small bowls	WELL PLATE	holds liquids in micro experiments
metal clamp screw fastener	TEST TUBE CLAMP	holds test tubes or other equipment	wire screen has ceramic disk to dissipate heat	WIRE GAUZE	spread heat of flame cooling heated con- tainer
glass or plastic variety of diameters	TEST TUBE	container glass versions can be heated	triangular wire frame with clay insulators	CLAY TRIANGLE	supports items being heated on ring stand
wire grid or made of plastic/wood	TEST TUBE RACK	Holds test tubes in upright position	ceramic dish	EVAPORATING DISH	holds small amounts of liquids. can be heated
thick metal wire spring handle	TEST TUBE HOLDER	allows for test tubes to be transferred or moved without touch- ing with hands	metal	TONGS	pick up and hold beakers

