

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

