

Chemistry 11: Identifying Laboratory Equipment/Apparatus

Purpose

What are the names and functions of the pieces of laboratory equipment/apparatus found in a typical chemistry laboratory?

Procedure

1. Locate each piece of laboratory equipment on the benches in the room.
2. Match the equipment with the description of its function.
3. Record the name and draw the piece of equipment beside its function.

Observations

Name	Picture	Description of Function
<i>wash bottle</i>		Used to wash the sides of a flask during a titration.
<i>buret</i>		Used in titrations to add a liquid or aqueous chemical slowly and precisely to another liquid or aqueous chemical.
<i>funnel</i>		Used to accurately and cleanly add one chemical to another or to filter a solid from a liquid solution using filter paper.
<i>test tube</i>		Hold or used to mix a small amount of liquid or aqueous chemical(s).
<i>test tube holder</i>		Holds a test tube so you don't have to.
<i>test tube rack</i>		Holds many test tubes.
<i>graduated cylinder</i>		Precisely measure the volume of a liquid or aqueous chemical.
<i>pipette</i>		Used to precisely measure a certain volume of liquid or aqueous chemical.

Name: _____ Block: _____ Date: _____

<i>dropper</i>		Used to add very small amounts (drops) of liquid or aqueous chemicals.
<i>beaker</i>		Hold or used to mix solid/liquid or aqueous chemicals. Can also be used to measure liquid or aqueous chemicals.
<i>Erlenmeyer flask</i>		Store liquid or aqueous chemicals.
<i>rubber stoppers</i>		Seal an Erlenmeyer flask.
<i>evaporating dish</i>		Holds a liquid or aqueous chemical that is being heated.
<i>laboratory burner</i>		Heat a substance using flame.
<i>wire gauze</i>		Distributes heat evenly.
<i>tongs</i>		Used to touch and/or move hot equipment.
<i>ring stand</i>		A stand that is used to hold glassware.
<i>iron ring</i>		Clamped onto a ring stand it can hold equipment for heating.
<i>(utility) clamp</i>		Clamps an iron ring or other holder onto a ring stand.
<i>spatula</i>		Measure small amount of solid chemicals.

Name: _____ Block: _____ Date: _____

<i>mortar and pestle</i>		Used to grind large pieces of solid chemicals into powder.
<i>forceps (tweezers)</i>		Used to pick up small amounts of solid that cannot be touched by hand.
<i>stirring rod</i>		Used to stir and mix chemicals.
<i>wire brush</i>		Used to clean glassware, especially test tubes.
<i>balance</i>		Measures mass.
<i>thermometer</i>		Measures temperature.
<i>ruler</i>		Measure the length of a solid.

Questions

1. Which laboratory equipment/apparatus can be used to measure liquid quantities? _____

beaker, graduated cylinder

2. Which laboratory equipment/apparatus are useful when measuring and mixing an acid and water?

graduated cylinder, beaker

3. What tool or tools would you use to make each of the following measurements?

a. amount of milk in a small glass _____ graduated cylinder

b. length of a sheet of paper _____ ruler

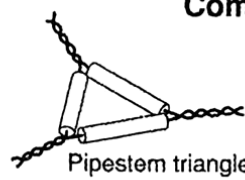
c. temperature of a swimming pool _____ thermometer

d. mass of a baseball _____ balance

Common Laboratory Equipment



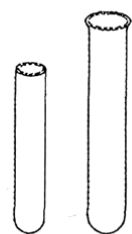
Balance



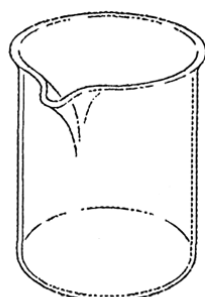
Pipestem triangle



Evaporating dish



Test tubes



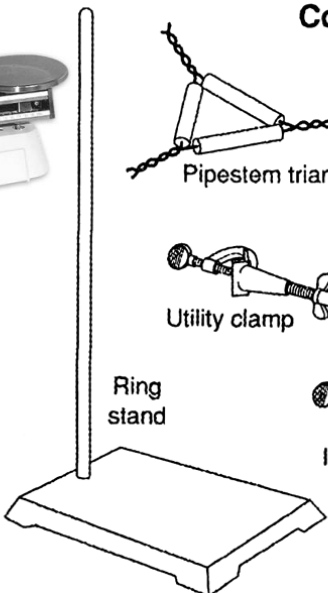
Beaker



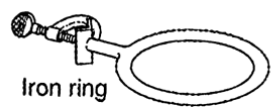
Utility clamp



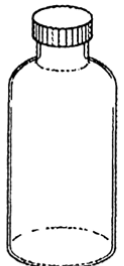
Mortar and pestle



Ring stand



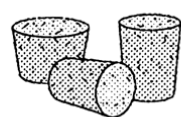
Iron ring



Gas bottle



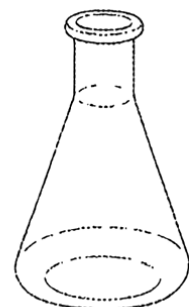
Safety goggles



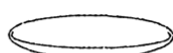
Corks



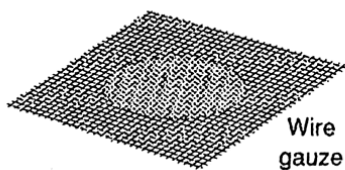
Stirring rod



Erlenmeyer flask



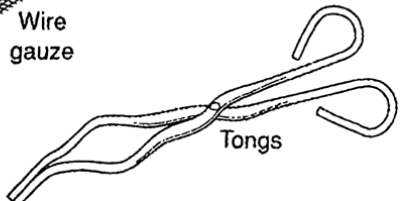
Watch glass



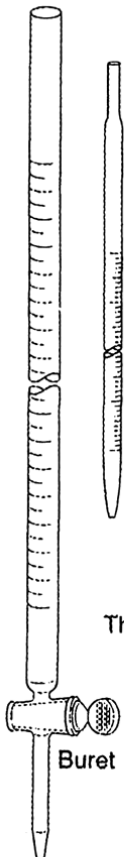
Wire gauze



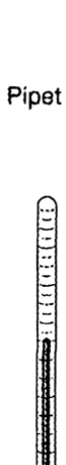
Assorted rubber stoppers



Tongs



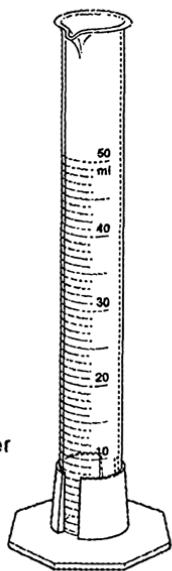
Buret



Pipet



Thermometer



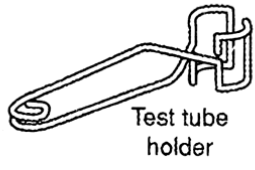
Graduated cylinder



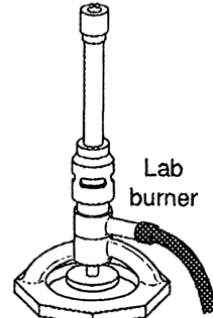
Wash bottle



Ruler



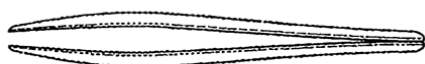
Test tube holder



Lab burner



Dropper



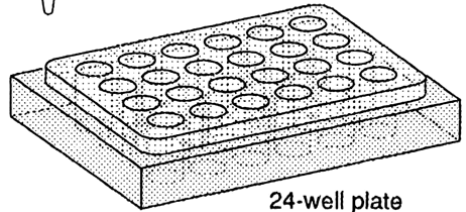
Forceps



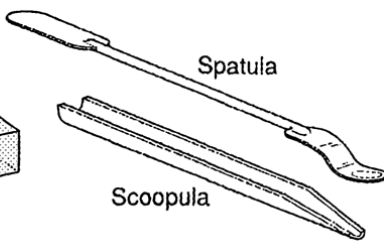
File



Wire brush

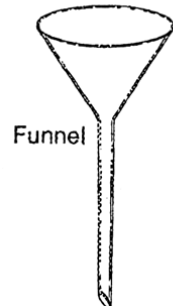


24-well plate

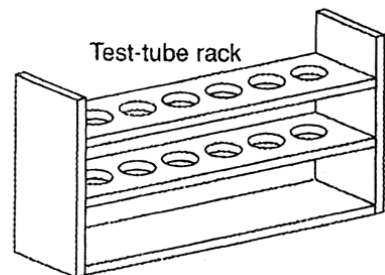


Spatula

Scoopula



Funnel



Test-tube rack

Name: _____ Block: _____ Date: _____