

Introduction to Chemistry

Laboratory Equipment

Erlenmeyer Flask



Performing chemical reactions
Mixing chemicals (*making solutions*)
Holding chemicals during lab

Filtering Flask



Separating chemicals (*normally solid from liquid*) by using a vacuum
Dries solids after an experiment / lab

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Laboratory Equipment

Volumetric Flask



Measures volume of a liquid
Used to make precise mixtures of liquids (*solutions*)

Beaker



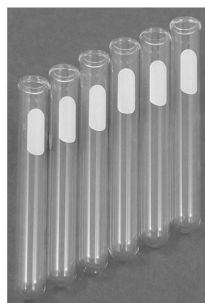
Performing chemical reactions
Holding chemicals during lab
Observing chemicals during lab

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Laboratory Equipment

Test Tubes



Performing small scale reactions
Heating small amounts of liquids/solids
Observing several chemical reactions

Watch Glass



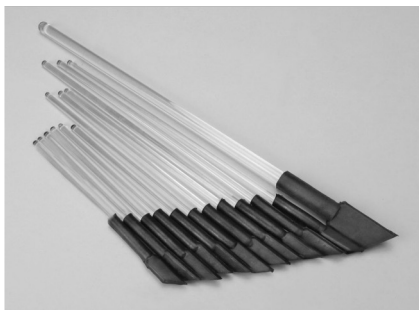
Providing safety shield while heating
or performing reaction
Viewing reactions from all sides

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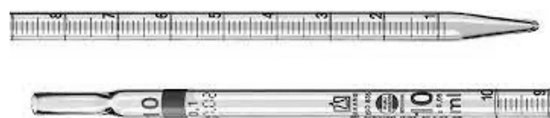
Laboratory Equipment

Stirring Rod



Stirring and mixing liquid mixtures
Separating solids from liquids (*rubber policeman*). Cleaning beakers/flasks

Graduated Volumetric Pipette



Transferring specific amounts of
liquid for making mixtures (*solutions*)
or during chemical reactions

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Laboratory Equipment

Burette



Distributing/Measuring a very precise amount of liquid, usually into a flask or beaker, during a chemical reaction

Graduated Cylinder



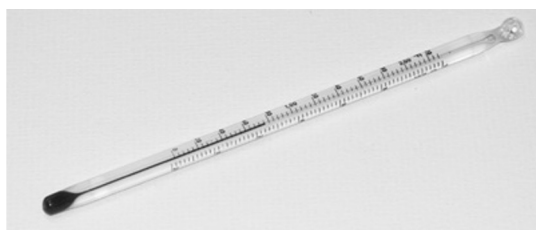
Measuring liquids from a larger container for use in a chemical reaction

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Laboratory Equipment

Alcohol Thermometer Weighing Boat



Measuring the temperature (*related the heat/energy*) of a substance, normally a solid, liquid, or mixture



Container used to hold solids before adding them to liquids, or for weighing solids on a balance (*mass*)

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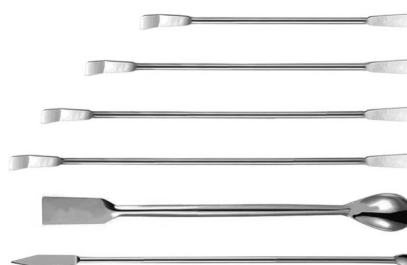
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Laboratory Equipment

Laboratory Balance Spatulas/Scoopulas



Measuring the mass (*weight*) on an object being measured. Can also be used to count small objects



Used to transfer solids into containers, before or after a reaction

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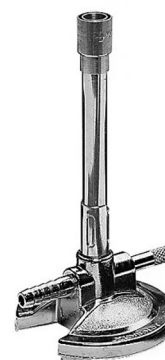
Laboratory Equipment

Hot Plate



Used to heat objects for a chemical reaction, normally to make the reaction work, or to go faster

Bunsen Burner



Used to provide a direct flame through natural gas to burn or heat objects during lab (*like a hot plate*)

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Laboratory Equipment Beaker Clamp



Using to hold hot beakers after heating them on a hot plate/Bunsen burner.

Ring Stand and clamp



Used to hold test tubes, flasks or beakers during the heating process.

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Laboratory Equipment Eyewash Station



Using to rinse eyes out after chemical exposure during lab. Not used for drinking or washing hands.

Drench Lab Shower



Used to wash larger body parts with water after chemical exposure.

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Laboratory Equipment

Gas Fume Hood



Used to contain gases from a chemical reaction that might be toxic, corrosive, or have a bad smell

Fire Extinguisher



Used to put out small fires within lab that can not be controlled by other smaller methods