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| **Laboratory Equipment** | | |
| Beaker |  | common sizes include: 50 ml, 100 ml, 250 ml, 400 ml  LEAST accurate in measuring volume |
| Beaker tongs |  | used to transfer hot beakers |
| Buchner funnel |  | filters solids from liquids using a mild vacuum |
| Bunsen Burner |  | source of heat/flame using gas |
| Buret |  | used to measure volumes of solution during titrations (vertical image is tilted horizontally in this illustration) |
| Crucible & cover |  | porcelain, used to heat small amounts of substances at high temperature |
| Crucible tongs |  | iron/nickel, used to pick up & hold small items |
| Digital balance |  | scale used to measure mass |
| Double buret clamp |  | holds burets in place when titrating |
| Erlenmeyer flask |  | used to mix a liquids by swirling contents |
| Evaporating dish |  | porcelain, used to hold small volumes of liquid to be evaporated |
| Filter paper |  | used to separate solids from liquids |
| Filtering flask |  | used with a Buchner funnel and a water aspirator |
| Forceps |  | used to pick up small objects |
| Funnel |  | glass or plastic, often used with filter paper |
| Gloves |  | protect skin from harmful chemicals |
| Graduated cylinder |  | used to measure approximate volumes (ml)  more accurate than a beaker |
| Graduated pipet |  | measure solution volumes  less accurate than volumetric pipet |
| Hot plate/stirrer |  | mechanically mixes solutions while heating |
| Mortar and pestle |  | porcelain, used to grind crystals or lumpy chemicals into powder |
| Petri dish |  | used to hold materials |
| Pipe-stem triangle |  | holds crucible and lid in a flame |
| Pipetter |  | used to accurately draw up liquid into pipet |
| Ring clamp |  | used with wire gaze to support a beaker when heating over a flame |
| Ring stand |  | used as a support for lab equipment |
| Rubber stoppers |  | used to stopper flasks and test tubes |
| Rubber tubing |  | apparatus to transfer liquid or gas |
| Safety goggles |  | eye protection |
| Scoopula |  | used to transfer solid chemicals from stock |
| Stirring rod |  | glass or wood, used for mixing |
| Test tube brush |  | cleans a test tube |
| Test tube holder |  | holds a single test tube |
| Test tube rack |  | holds test tubes |
| Test tubes |  | mix small quantities of liquids and solids |
| Thermometer |  | measures temperature  common range –10oC to 110oC |
| Volumetric pipet |  | most accurate in measuring volume |
| Wash bottle, plastic |  | contains distilled water, used for rinsing |
| Watch glass |  | used to cover an evaporating dish or beaker |
| Well plate  (Spot plate) |  | surface used to react small amounts of chemicals |
| Wire gauze |  | used with ring clamp to support a beaker when heating over a flame |