**A. Things on a Ring Stand**

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| --- | --- | --- | --- | --- | --- |
| **OBJECT** | **PURPOSE** | **PICTURE** | **OBJECT** | **PURPOSE** | **PICTURE** |
| Metal Ring | *To support wire gauze or clay triangle & hold object above burner* |  | Funnel Stand | *To support a funnel so a beaker or other container may be placed under it* |  |
| Test Tube  Clamp | *To hold a test tube securely on a ring stand* |  | Wire Gauze | *Placed on a metal ring. Supports beaker or other object over burner.* |  |
| Ring Stand | *To serve as a base for holding rings, Bunsen burners, funnel stands, etc.* |  | Clay Triangle | *Placed on metal ring. Supports crucible over burner* |  |

**B. Objects Used to Manipulate Things**

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| --- | --- | --- | --- | --- | --- |
| **OBJECT** | **PURPOSE** | **PICTURE** | **OBJECT** | **PURPOSE** | **PICTURE** |
| Scoopula | *To transfer granular solids from a container to another area. Also good for pulverizing solids.* |  | Crucible Tongs | *To grab and move a hot crucible from one area to another.* |  |
| Micro-spatula | *To transfer small amounts of granular solids.* |  | Beral (plastic)  Pipet | *To transfer small amounts of liquid from one area to another.* |  |
| Beaker Tongs | *To grab and move a hot beaker from one area to another.* |  | Forceps | *To grab and move solid objects.* |  |
| Pipet Bulb | *To draw liquids into a pipet. NEVER USE YOUR MOUTH!!!* |  | Volumetric Pipet | *To measusre out a specific volume of a liquid. NEVER USE YOUR MOUTH!!* |  |

**C. Containers - NOTE: *None of these are used for measurement***

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| --- | --- | --- | --- | --- | --- |
| **OBJECT** | **PURPOSE** | **PICTURE** | **OBJECT** | **PURPOSE** | **PICTURE** |
| Erlenmeyer Flask | *Glass container with narrow neck. Good for holding and heating chemicals* |  | Beaker | *Glass container with wide neck. Also good for holding and heating chemicals..*  *DO NOT USE TO MEASURE LIQUID VOLUMES!!* |  |
| Test Tube | *Small glass tube with one open end. Commonly used for observing reactions.* |  | Crucible | *Porcelain container used for high temperature heating.*  *VERY FRAGILE.* |  |
| Squeeze Bottle | *Holds cleaning solution, reagent or distilled water. Used to rinse glassware.* |  | Evaporating Dish | *Lidless porcelain dish used for high temperature heating.*  *VERY FRAGILE.* |  |
| Reagent Bottle | *Glass container used to hold reagents. Comes in many shapes and sizes.* |  | Spot Plate | *Plastic plate with many wells. Used to perform many reactions next to each other for easy comparison.* |  |

**D. Measuring Devices**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **OBJECT** | **PURPOSE** | **PICTURE** | **OBJECT** | **PURPOSE** | **PICTURE** |
| Thermometer | *To measure temperatures of objects or substances.*  *UNITS: oC* |  | Electronic Balance | *To measure the masses of substances.*  *UNITS: g* |  |
| Graduated Cylinder | *To measure volumes of liquids.*  *UNITS: mL* |  | Volumetric Flask | *A flask designed to very precisely measure one particular volume of liquid* |  |

**E. Miscellaneous other Items**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **OBJECT** | **PURPOSE** | **PICTURE** | **OBJECT** | **PURPOSE** | **PICTURE** |
| Safety Goggles | *Protects eyes from damage. REQUIRED IN LAB AREA AT ALL TIMES UNLESS SPECIFICALLY TOLD BY INSTRUCTOR.* |  | Rubber Tubing | *Used to transfer a fluid (liquid or gas) safely from one container to another.* |  |
| Plastic Apron | *Protects torso and legs from damage.* |  | Bunsen Burner | *Used for heating substances. Produces up to 950oC* |  |
| Hot Plate | *To heat substances in glass or porcelain containers.* |  | Stopper | *Used to close flasks and test tubes. Varieties include rubber and cork.* |  |
| Stir Rod/ Stir Bar | ***Rod -*** *Glass rod used to stir solutions*  ***Bar -***  Magnetic Bar used on hot/stir plate |  | Funnel | *Used to help transfer liquids from one container to another. Also used to make a filter with* ***filter paper*** |  |

**G. Laboratory Safety Highlights**

1. Safety Video

2. Symbols you should know:

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| --- | --- | --- | --- |
| SYMBOL | MEANING | SYMBOL | MEANING |
|  | Flammable Solid |  | RED - Flammable Gas or Liquid  BLUE – Dangerous when wet |
|  | Poisonous |  | Strong Oxidizer |
|  | Radioactive |  | Corrosive |
|  | Strong Irritant |  | Biohazard |