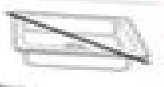


# LABORATORY BASICS

## LABORATORY SAFETY

- Check location of emergency equipment and learn to operate it correctly (eye fountain, fire blanket, showers, fire extinguishers, fire escapes, telephones)
- Be prepared for emergency situations
- Have a thorough knowledge of the basic characteristics and potential dangers of all the chemicals you work with
- Read Material Safety Data Sheets (MSDS)
- Consult Merck Index (popular chemical encyclopedia) for info
- Wear eye protection at all times
- Do not wear contact lenses in the laboratory (contact lens material may react with chemical vapors and cause serious eye damage)
- Wear a lab coat and ensure that your feet are adequately protected
- Tie or secure long hair
- Never bring food or beverages into the laboratory
- Do not eat, drink, or smoke in the laboratory
- Do not use laboratory equipment for eating, drinking, or personal hygiene
- Never work alone
- Be sure that someone is always within earshot and knows that you are in the laboratory
- Never perform an unauthorized experiment
- Remove all hot objects, hot glass (just like cold glass)
- Use heat resistant gloves or mittens when handling hot objects
- Do not force glass tubing through hole in a stopper
- Wet tubing and hole with water; proceed with caution
- Hold glass tubing close to hole and insert it slowly without excess force
- Wear gloves when possible
- Use a fumehood whenever an experimental procedure makes it necessary
- Ensure that the fumehood is operating properly by testing the air flow with a light piece of paper or thread
- Most laboratories do not permit flushing of dangerous solutions (heavy metal ions, cyanides, reactive or organic materials) down drain
- Follow appropriate waste/chemical disposal policies as provided by the institution



## BASIC LABORATORY GLASSWARE & EQUIPMENT

Wash Bottle



Crucible



Erlenmeyer Flask



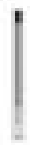
Spatulas



Round Bottom Boiling Flask



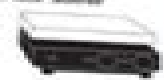
Thermometer



Separatory Funnel



Hot Plate/Stirrer



Filtering Flask



Stirring Bars



Funnel



Clamps



Filter Paper



# Laboratory Equipment Guide

**Yi-Tong Ma**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Laboratory Equipment Guide:**

Uncover the mysteries within Explore with is enigmatic creation, **Laboratory Equipment Guide** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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