ODM EDUCATIONAL GROUP

COMMON LABORATORY APPARATUS AND EQUIPMENTS

INTRODUCTION

SUBJECT-CHEMISTRY

CHAPTER-02

CHAPTER NAME-COMMON LABORATORY APPARATUS AND EQUIPMENTS

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INTRODUCTION TO LABORATORY FACILITIES

The knowledge of chemistry would be incomplete if we do not utilise our ability to observe a natural phenomenon, then put in to an experiment and finally, draw our own conclusions to verify the facts.

LABORATORY

A chemical laboratory is a place to perform experiments, observe chemical processes and to analyse

WORKING TABLE

- It is a special type of table, fitted with a gas burner, a sink with a tap, a reagent shelf and a waste paper basket. There is also a side shelf for keeping glassware apparatus and a fume closet.

REAGENT SHELF

- This Shelf is meant for keeping all reagents with labels on every bottle to certainly avoid confusion.

EXHAUST FAN

- These fans are fitted near the roof of the walls to expel poisonous gases and fumes so that one can comfortably work for a longer time in the laboratory.

BALANCE ROOM

- A Chemical Laboratory has a separate room where a number of physical, chemical and electronic balances are kept for weighing chemicals.

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DESCRIPTION AND USES OF LABORATORY APPARATUS

A good Chemical Laboratory must have the apparatus and equipment shown below.

SPECIAL NOTE: Most of the Laboratory apparatus are made of glass because of the following factors -

- Glass is transparent.
- Glass can withstand high temperatures
- Glass is easy to clean.
- Glass do not react with chemicals
- Pyrex glass or Borosil glass is used for making laboratory equipment.

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DIAGRAMS OF SOME COMMON LABORATORY APPARATUS

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USES OF SOME LABORATORY APPARATUS

Name of Apparatus	Description	Use
▪ Test tube	Made of hard or Pyrex glass.	Used to conduct tests with small amount of chemical for heating and boiling purposes.
▪ Beaker	Made of glass and available in different sizes.	For preparation and keeping of solutions.
▪ Bunsen Burner	A burner that uses gas as a fuel.	For heating purposes
▪ Gas Jar	Glass cylinder	For collecting gases

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PRECAUTIONS IN A CHEMICAL LABORATORY

- Do not work alone in the laboratory.
- Always wear a lab coat.
- Follow your teacher's instructions.
- Do not touch or taste any unknown substances.
- Do not inhale any unknown gases.
- Do not throw hot concentrated acids directly into the sink.
- Do not throw broken glass apparatus or used filter paper in the sink.
- In case of accidental burns, immediately wash affected part with running water.
- Maintain silence and discipline in the Laboratory.

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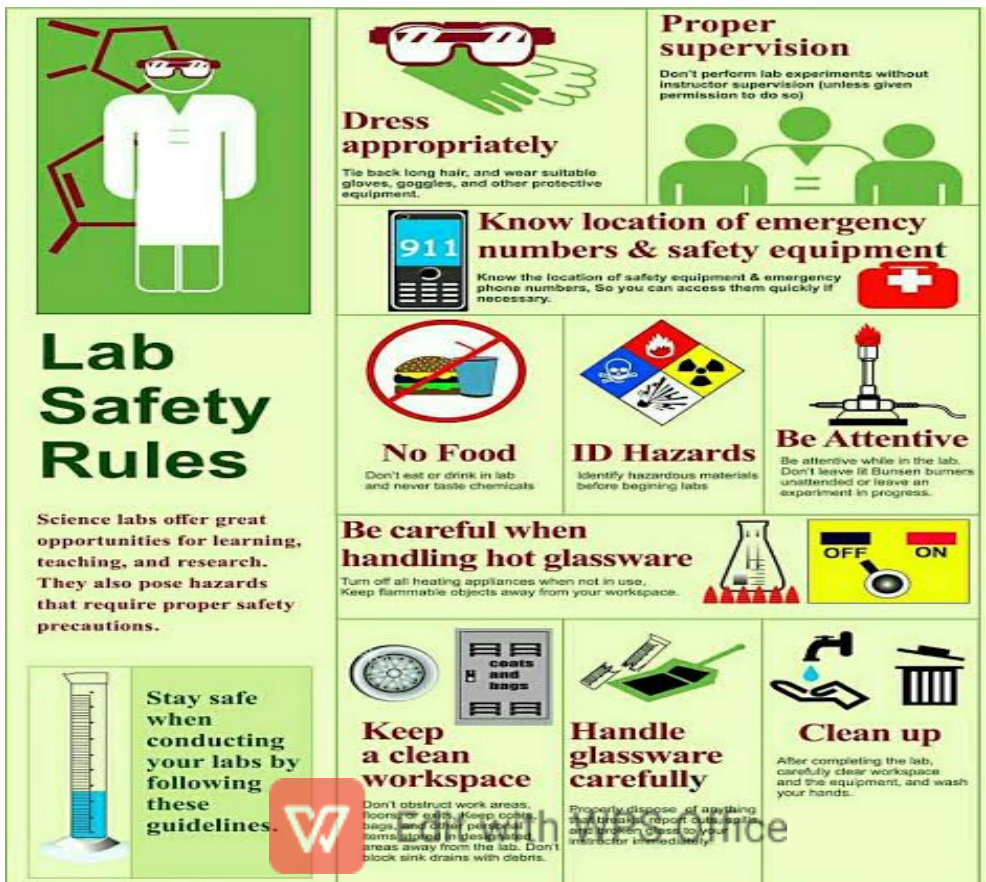
SAFETY RULES IN A CHEMICAL LABORATORY



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