

Biology Laboratory Report

Name: Azariyas Mekonen

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Lab partner:

Title: **Biology Laboratory Equipements**

Objective:

To observe and identify various biology laboratory equipment, understand their uses, and learn proper handling techniques.

Materials Observed:

Hand lens, Microscope, Glass slide, Cover slip, Autoclave, Incubator, Petri dish, Culture tube, Flask, Balance, Dropper (Pipette), Tongs, Dissecting tool kit, Dissecting pan, Crucible, Beaker, Hot plate, pH meter, Thermometer, Forceps, Spatula, Wash bottle, Bunsen burner or Alcohol burner, Tripod.

Procedure:

1. Entered the biology laboratory and observed different laboratory instruments placed on tables and shelves.
2. The teacher explained the names and uses of each tool.
3. We recorded the equipment in our notebooks and discussed their functions and handling.
4. We practiced identifying them one by one and discussed safety rules while using them.

Observations and Functions of Equipment:

No.	Equipment	Description / Function
1	Hand Lens	Magnifies small objects for simple observation.
2	Microscope	Used to observe very small organisms or cells not visible to the naked eye.
3	Glass Slide	Holds the specimen to be viewed under the microscope.
4	Cover Slip	Covers the specimen on a slide and protects it.
5	Autoclave	Sterilizes equipment and media using steam under pressure.
6	Incubator	Provides controlled temperature for growing microorganisms.

7	Petri Dish	Shallow circular dish used for culturing microorganisms.
8	Culture Tube	Holds cultures of bacteria or other microorganisms.
9	Flask	Used to mix, heat, and store liquids.
10	Balance	Measures mass of substances accurately.
11	Dropper / Pipette	Transfers small amounts of liquid.
12	Tongs	Used to hold hot equipment safely.
13	Dissecting Tool Kit	Contains instruments like scissors, scalpel, and needles for dissection.
14	Dissecting Pan	Holds specimen during dissection.
15	Crucible	Used for heating substances at high temperature.
16	Beaker	Holds, mixes, or heats liquids.
17	Hot Plate	Provides a flat surface for heating substances.
18	pH Meter	Measures the acidity or alkalinity of a solution.
19	Thermometer	Measures temperature.
20	Forceps	Used for holding or picking up small objects.
21	Spatula	Used to transfer solid chemicals.
22	Wash Bottle	Holds distilled water for rinsing or washing equipment.
23	Bunsen Burner / Alcohol Burner	Provides flame for heating or sterilization.
24	Tripod	Supports containers during heating.

Conclusion:

In this activity, we learned to identify various biology laboratory instruments, understood their functions, and how they are properly used. This knowledge is essential for carrying out safe and accurate biological experiments.

Precautions:

- Handle glassware carefully to avoid breakage.
- Do not touch hot equipment directly.
- Use instruments only for their specific purposes.
- Always clean and return tools to their proper places after use.