Name	Class	Date

LABORATORY SKILLS 2

Identifying Laboratory Equipment

Pre-Lab Discussion

Scientists use a variety of tools to explore the world around them. Tools are very important in the advancement of science. The type of tools scientists use depends on the problems they are trying to solve. A scientist may use something as simple as a metric ruler to measure the length of a leaf. At another time, the same scientist may use a complex computer to analyze large amounts of data concerning hundreds of leaves.

In this investigation, you will identify pieces of laboratory equipment likely to be found in a biology laboratory. You will also learn the function of each piece of laboratory equipment.

Problem

What are the names and functions of some of the pieces of laboratory equipment found in a typical biology laboratory?

Materials (per group)

Equipment shown in this activity (for inspection and demonstration)

Safety A

Handle all glassware carefully. Be careful when handling sharp instruments. Always handle the microscope with extreme care. You are responsible for its proper care and use. Use caution when handling glass slides as they can break easily and cut you. Note all safety alert symbols next to the steps in the Procedure and review the meanings of each symbol by referring to the symbol guide on page 10.

Procedure

Part A. Identifying Laboratory Equipment

1. Look at the drawings of the laboratory equipment. In Observations, write the letter of the drawing next to the name that correctly identifies it.

Part B. Identifying the Function of Certain Types of Laboratory Equipment

1. Carefully inspect the different types of laboratory equipment that have been set out by your teacher.

2. In Observations, identify the function of each piece of laboratory equipment.

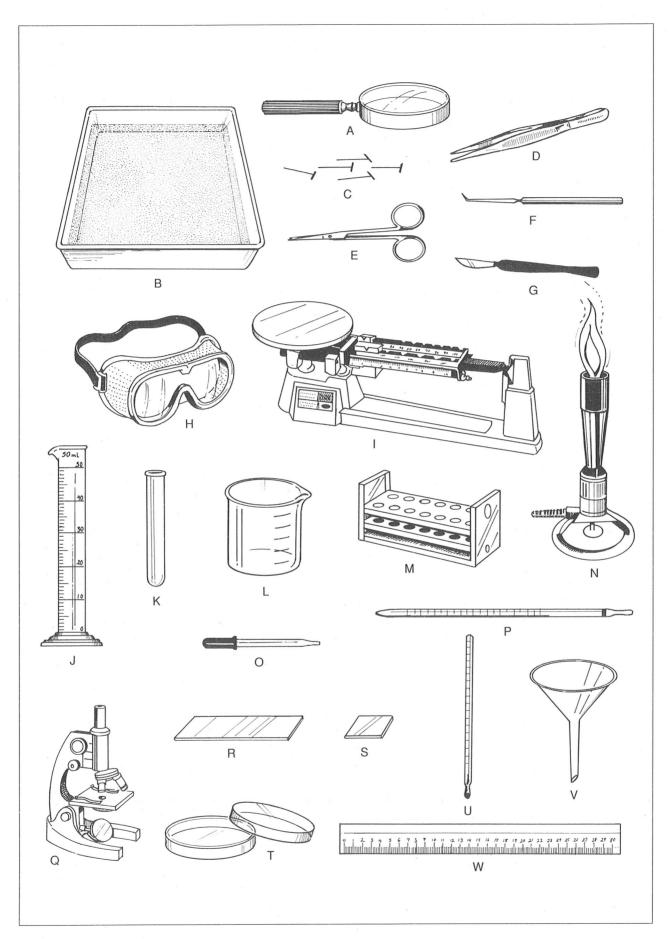


Figure 1

Class Date
13. glass slide
14. petri dish
15. pipette
16. probe
17. metric ruler
18. safety goggles
19. scalpel
20. test tube
21. test tube rack
22. thermometer
23. triple-beam balance
f Laboratory Equipment

17. metric ruler __

	18.	safety goggles
	19.	scalpel
	20.	test tube
	21.	test tube rack
	22.	thermometer
	23.	triple-beam balance
Ana	lysi	s and Conclusions
	1.	Which laboratory tools can be used to magnify small objects so they can be seen more easily?
	9	Which laboratory tools are useful when looking at the internal organs of an earthworm?
	۷.	
Crit	ical	Thinking and Application
OIII		What tool or tools would you use to make each of the following measurements?
		a. amount of milk in a small glass
		b. length of a sheet of paper
		c. temperature of a swimming pool
		d. mass of a baseball
	2.	How do laboratory tools improve the observations made by a scientist?
Goi	na l	Further

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Examine other types of laboratory equipment that you will be using in the biology laboratory. Try to determine the function of each piece of equipment.