Identifying Laboratory Equipment

Introduction

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?

Pre-Lab Discussion

Read the entire investigation. Then, work with to answer the following questions.

- 1. What kinds of measurements might you need to make in the laboratory?
- 2. What kinds of equipment would you need for these tasks?
- **3.** Why are there several types of glassware marked for measuring?
- **4.** When might you need to use a thermometer in the lab?

Procedure

provided, do the following: write the name of each piece of laboratory equipment AND a brief description of its function. You will likely need to use the internet to look up information on the equipment. A. B. C. D. E. F. G. H. I. J. K. L. M. N. 0. P.

1. Look at the drawings of the laboratory equipment in Figure 1. In the space

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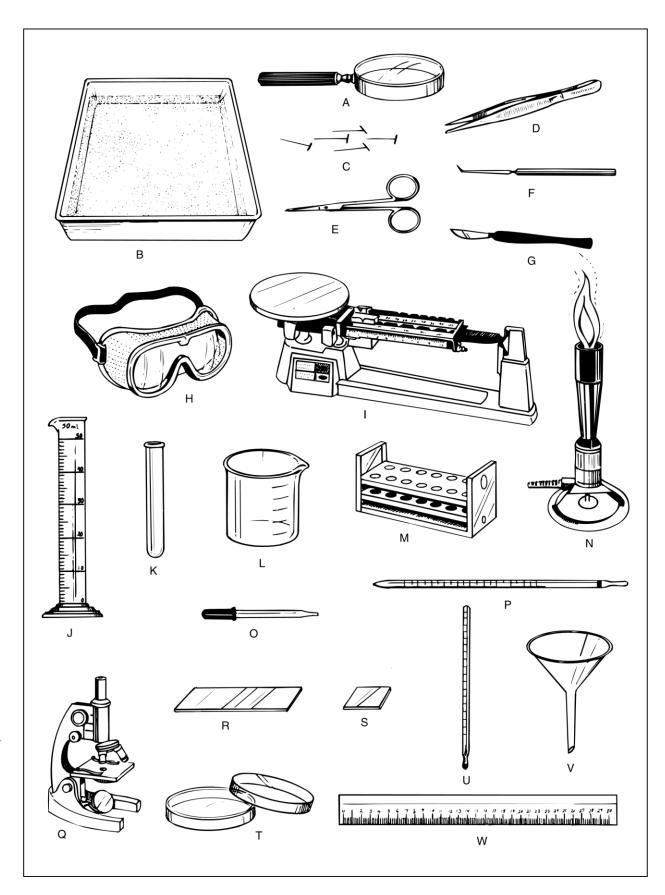


Figure 1

Analysis and Conclusions

1.	Classifying Which laboratory tools can be used to magnify small objects so they can be seen more easily?
2.	Classifying Which laboratory tools are useful when looking at the internal organs of an earthworm?
3.	Applying Concepts 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 the water in a swimming pool
	d. mass of a baseball
4.	Drawing Conclusions How do laboratory tools improve the observations made by a scientist?