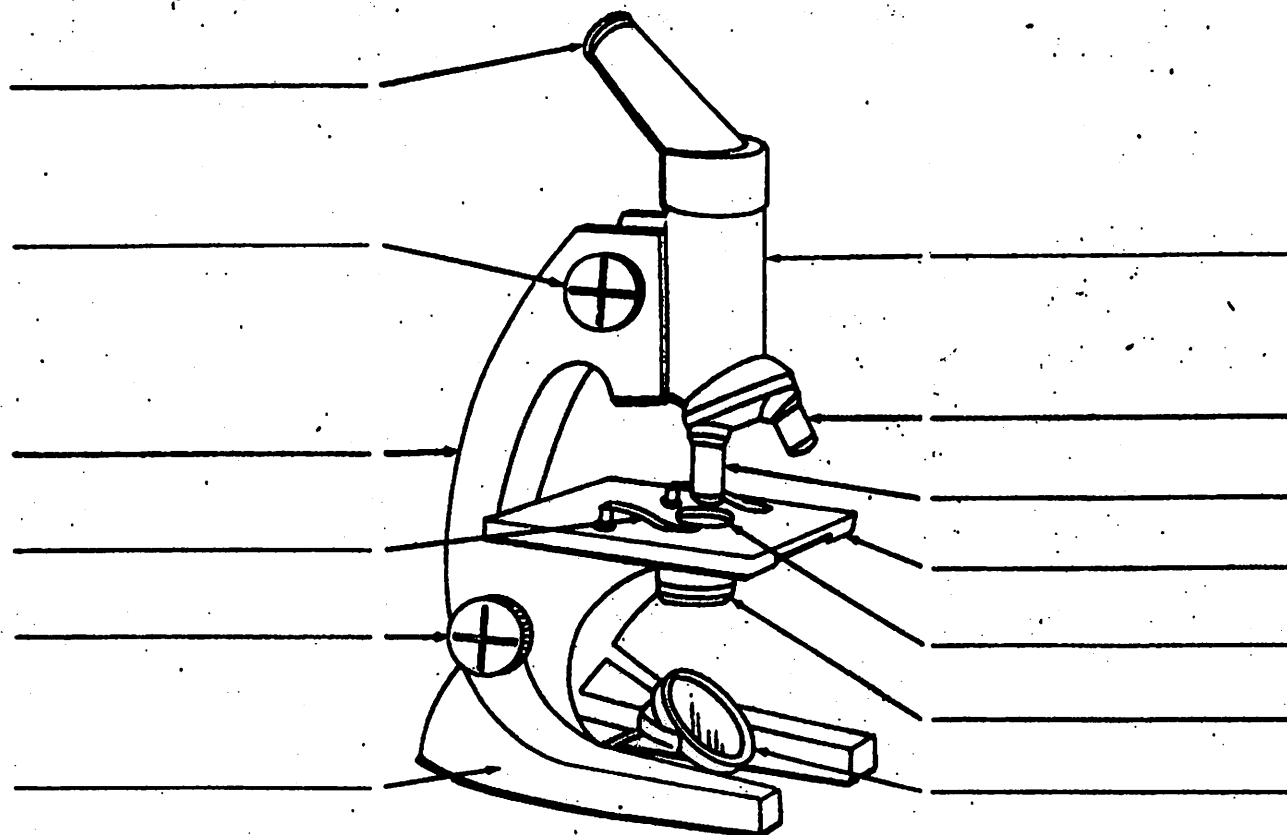


1-2 Tools of Biology

In your textbook, read about the light microscope (Section 1:2).

1. Label the parts of this drawing using the words listed here. Coarse adjustment, Stage, Mirror, Fine adjustment, Eyepiece, Low power objective lens, High power objective lens, Stage clip, Body tube, Arm, Base, Stage opening, Diaphragm



2. The power of a lens tells how many times it will magnify. To find out how many times an object is magnified, multiply the eyepiece lens power by the objective lens power.
- a. Find the total low power magnification and the total high power magnification of the microscopes in the table below.

Microscope	Lens magnification			Total magnification	
	Eyepiece lens	Low power lens	High power lens	Low Power	High Power
A	4 X	10 X	40 X		
B	10 X	10 X	43 X		
C	8 X	10 X	80 X		

- b. Which microscope (A, B, or C) gives the highest magnification on low power? _____

- c. Which microscope (A, B, or C) gives the highest magnification on high power? _____