

Name: PILARE KEY

Hour: \_\_\_\_\_

## Introduction to the Microscope: Lab Activity

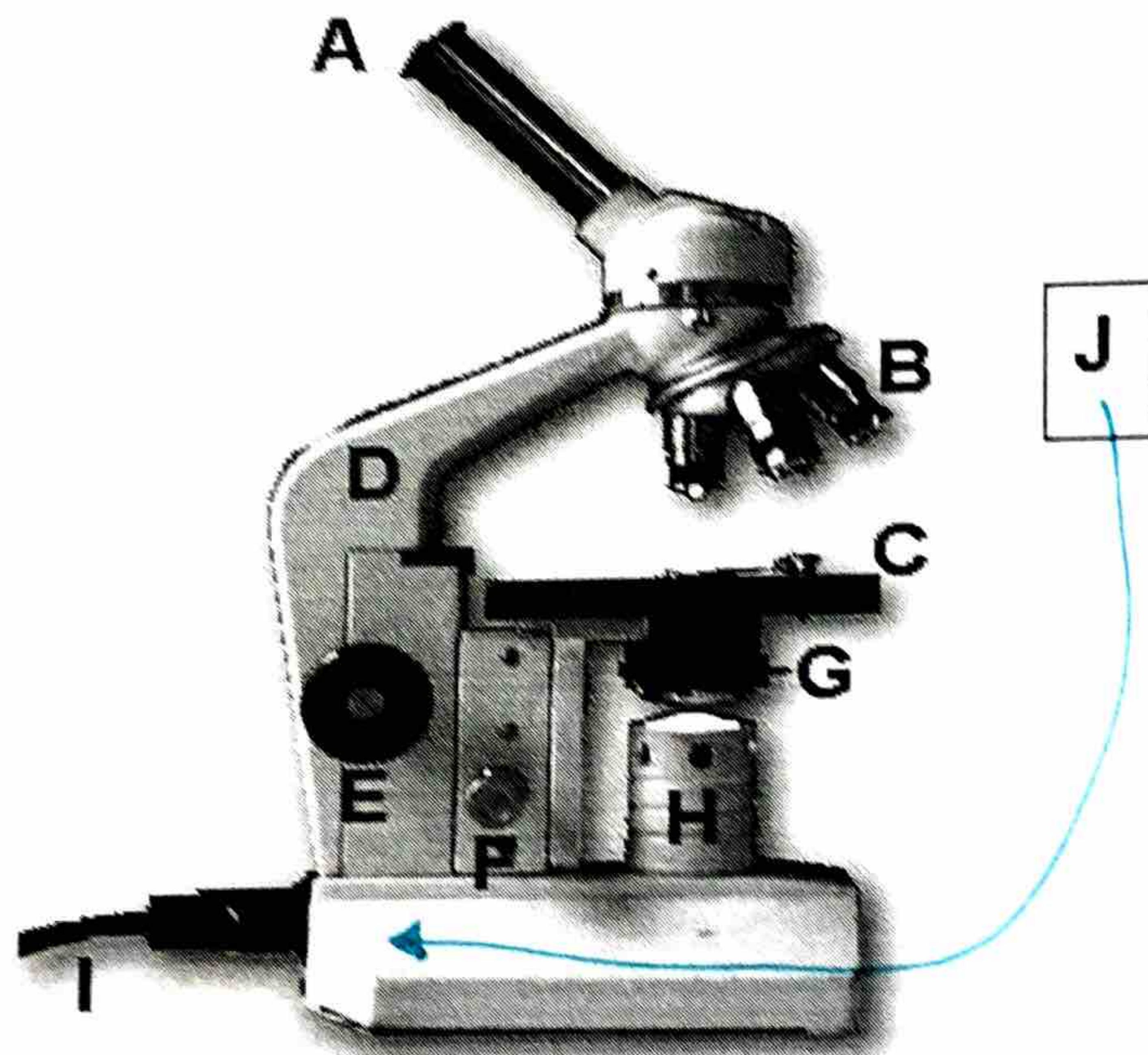
Microscopes are tools used to enlarge images of small objects so as they can be studied. The compound light microscope is an instrument containing two magnifying lenses and a variety of knobs to resolve (focus) the picture.

- **Magnification:** ability to enlarge an image
- **Resolution:** ability to produce a clear image
- **Field of View:** the circle of light that you see when you look into the microscope. As magnification increases, the field of view decreases.

### I. Know your microscope.

1. Examine the microscope and label the parts in the diagram.
2. Indicate the function of each of the parts in the table below.

### Microscope Labeling



lowest = 4x Red  
 medium = 10x Yellow  
 highest = 40x Blue

Part	Function
A. <b>Eyepiece</b>	10x lens at the top, look through
B. <b>Objectives</b>	Magnifies, always start at the lowest
C. <b>Stage</b>	Platform you put slides on, has clip or claw
D. <b>Arm/Neck</b>	Connects eyepiece to base
E. <b>Coarse Focus</b>	(big knob) use 1st, major adjustment focusing
F. <b>Fine Focus</b>	(small knob) use 2nd, fine tunes image
G. <b>Diaphragm</b>	controls amount of light
H. <b>Illuminator</b>	light source
I. <b>Cord</b>	connects scope to light source
J. <b>On/Off Switch</b>	controls the light