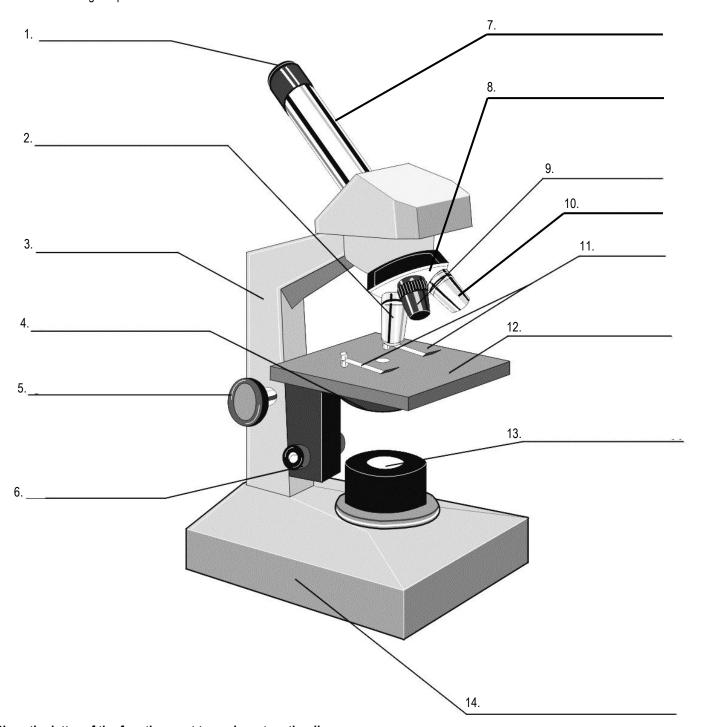
NAME:	BLOCK:	DATE:	

The Compound Light Microscope

Label the following parts on the diagram:

Fine adjustment knob Ocular lens Low power objective lens Stage Clips Coarse adjustment knob Diaphragm Medium power objective lens Base Revolving nosepiece Light Source
Body tube Stage
High power objective lens Arm



Place the letter of the function next to each part on the diagram:

- A. contains an eyepiece magnification lens of 10X power
- B. holds the slide in place
- C. supports the body tube; provides a place to grasp the microscope
- D. provides a magnification power of 10X
- E. moves the body tube freely up and down to focus the image
- F. provides light to view specimens
- G. provides a magnification power of 4X

- H. moves the body tube only slightly to sharpen the image
- I. supports the microscope at the bottom
- J. provides a magnification power of 40X
- K. can be rotated to control the amount of light that enters the stage
- L. holds the lenses; rotates to change from low to medium to high power
- M. maintains the proper distance between the eyepiece and the objective lens
- N. supports the slide being viewed

Calculations: Measuring with the Microscope

- It is important to know the dimensions of the object being observed under the microscope.
- 1. To calculate the power of the microscope:
 - a. Multiply the power of the eyepiece, (10x), by the power of the objective lens used (4x, 10x, 40x)

	Magnifying Power of Microscope		agnifying power of the eyepiece		x	Magnifying Power of the objective	
2.	The magnifying pow a. Low power =	er of tl	he microscope on	ı: x		=	
	b. Medium power	r =		X		=	
	c. High power =			X		==	

3. Complete the following table:

Magnification power of the ocular	Magnification power of the objective	Magnification power of the microscope
10x	4x	
10x		400x
	4x	60x
15x	10x	
10x		100x
	40x	600x