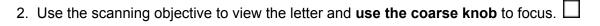
Microscope Introduction - "e" Lab

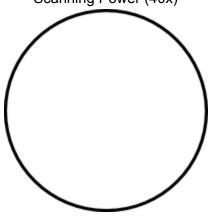
1. Place the slide of the "letter e" on the stage so that the letter is over the hole and is right side up as you look at it with the naked eye. \Box



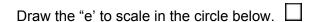
Draw the "e" as it appears in your viewing field. You should draw it to scale, meaning it should take up as much of the circle in your drawing as it does when you view it. \Box

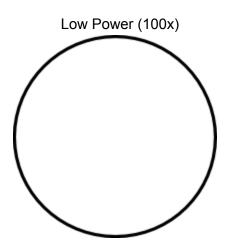


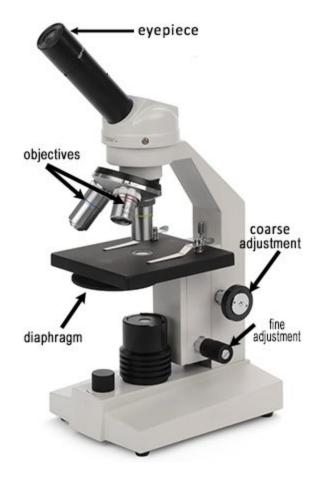
Scanning Power (40x)



3. Switch to the low power objective (this is the medium sized one). You should hear it click into place. Look in the microscope, the 'e' should still be visible, but it will be bigger and it might be blurry. **Use the coarse knob** to bring it back into focus. You may also want to move the slide to re-center the 'e".









4. Switch to the high power objective (this is the longest one). Now when you look into the microscope you probably won't see the "e." At this magnification, you are just seeing a part of the "e" and the ink used to print it. At high power, you will need to focus, but this time, only use the FINE ADJUSTMENT KNOB . You should only need to rotate it a little bit to bring the slide back into focus, so turn the knob slowly.
Draw the "e" as it now appears in the viewing field. \Box
High Power (400x) Do not use the coarse knob (large) with high power!
Common Things
5. Obtain a slide from the "common" box - sketch under scanning and low power. Use the label on the slide to name each.
Name of Slide Name of Slide
Scanning Low Power Scanning Low Power
Depth Perception
6. Obtain a slide with three different colored threads on it. View the slide under scanning and then low power You should note that you could only focus on one colored thread at one time. Determine which thread is on top by lowering your stage all the way, then slowly raising it until the thread comes into focus. The first thread
to come into focus is the one on top. \square
Which color thread is on top?
Which color thread is in the middle?
Which color thread is on the bottom?

Using a Stereoscope

	pes are used to view large or thick specimens. It does not have as great of a magnification, usually about a specimen on the stereoscope (1-2 will be placed in the room for you).	
What object did you look at?		
Why would y	ou not be able to view this object with the light microscope?	
ANALY	SIS - answer true or false to each of the statements	
8. Answer t	rue or false to the following statements.	
т О г О	On high power, you should use the coarse adjustment knob.	
т О г О	The low power objective has a greater magnification than the scanning objective	
тО ғО	The fine focus knob moves the stage up and down.	
тО ғО	Images viewed in the microscope will appear upside down.	
тО ғО	The type of microscope you are using is a scanning microscope.	
тО гО	For viewing, microscope slides should be placed on the objective.	
	In order to switch from low to high power, you must rotate the revolving nosepiece.	
	You can tell that the objective is in place because it makes a clicking noise.	
	A stereoscope is used to view large objects.	
	The first step in viewing specimens is to use the high power objective.	
	A stereoscope is hinocular, meaning it has two evenieces	

9. You are tasked to go to the junior high and help students there use the microscope. **Write a short step-by-step guide** to tell younger students how to focus a slide using the high power objective.