## Cells, Tissues, Organs and Systems Lab #2- Using the Microscope

NAME:		Date Due:			
	rpose: Can a microscope be used to determine the size of objects?  rpothesis: (copy from the text)				
Ana	lysis	e: Follow the procedure from the text and answer the analysis questions as you proceed. <u>Ouestions</u> :			
Step	# I 1.	What is the diameter of the field of view under low power? Include the units of measure.			
Step	#2 2.	Why should the coarse adjustment knob NOT be used with the medium and high-power lenses?			
	3.	What is the diameter of the field of view under medium power?			
Step	#3 4.	Calculate the ratio of the magnification of the high power lens to the low power lens. (SHOW YOUR CALCULATIONS)			
	5.	Use the ratio to calculate the field of view under high power magnification. (SHOW YOUR CALCULATIONS)			
Step	#5 6.	Estimate the number of copies of the letter "f" that can fit across the field of view.			

8. Explain why the size of objects viewed under high power is usually measured in micrometers (μm) rather than millimetres (mm). (1000 μm= 1 mm)					
9.	Devise a way to estimate	the size of the letter "F". DESCRIBE the method.			
10.	Construct an equation th	at you can use.			
11.	11. Which magnification would be best for scanning several objects? WHY?				
Conclusion: (Answer the purpose and then record the formula to use to determine the size of objects under a high power lens.)					
No hypothesis Poor knowled No or incorre Poor conduct Redo and par	dge exhibited in analysis questions ect conclusion	Complete by due date with accuracy Hypothesis <b>not</b> in "IF/THEN" form Good knowledge exhibited in analysis questions Correct conclusion Adequate conduct during lab Questions to improve	Completed by due date with detail Hypothesis in proper form Excellent knowledge exhibited in ar questions Supported conclusion Model scientist/student		

What happens to the diameter of the field of view as you move from low to high magnification?

7.