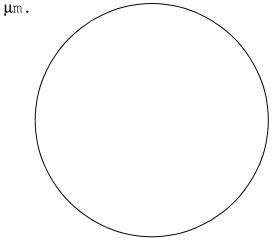
Name	•						
rvariio	•	 	 	 		 	

Microscope Power and Field of View (F.O.V.)

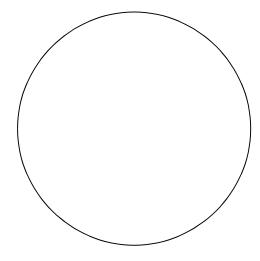
1. Using low power, sketch what you see when you view the ruler. Estimate the size of the field of view from the ruler in mm. Multiply this value by 1000 to get a value in



Low Power

Estimate size = $\underline{mm} \times 1000 = \underline{\mu}m$

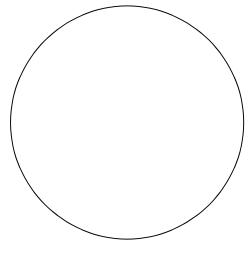
2. Repeat #1 using medium power



Medium Power

Estimate size = $\underline{mm} \times 1000 = \underline{\mu}m$

3. Repeat #1 using high power



High Power

Estimate size	=	mm	X	1000	=	μn	n

4. Summarize your fields of view so far using this table:

Fields of View	Using a Ruler
Microscope Power	Field of View in μ m
Low	
Medium	
High	

5. Using the piece of blue printing, calculate the distance between the center of two blue dots. Use your low power field of view measurement for this.

distance between dots = $\frac{\text{low power field of view in } \mu\text{m}}{\text{maximum number of dot across field}}$

distance between dots = _____

distance between dots = μ m

6.	Using your answord view.	er	from #5,	determine the	e medium	power	field
	medium power field of view	=	(distance	e between dots	s) x (num	ber of	dots)
	medium power field of view	=	(μ m) $ imes$ ()	
	medium power : field of view	=		μm			

7. Using your answer from #5, determine the high power field of view.

8. Summarize your fields of view using this second method:

Fields of View Using	the Method of Dots
Microscope Power	Field of View in μ m
Low*	
Medium	
High	

^{*}Please note the low power field of view is still taken from the ruler measurement

9. Which method of calculating the field of view for method power gives a better answer? Why do you think the case? (Answer in complete sentences.)					
10.		he total magnifics using the formu		croscope on all	
	Power = (Oc	ular Magnificatio	on) x (Objective	Magnification)	
	Use this ta	ble to help.			
М	icroscope Power	Ocular Magnification	Objective Magnification	Total Magnification	
	Low				
	Medium				
	High				
11.	power. What	magnification wi t do you notice h cation increases? Answer in complet	nappens to the fi ? Does this make	eld of view as	