

Name _____

Microscope Parts and Use

1. Respect Equipment:

Carry the _____ to your desk with 2 hands. One hand on the _____ and one holding the _____.

2. Use these words to fill out the diagram.

Base	Arm	Eye piece	Lens (objective)	Light
Clip	Stage	Diaphragm	Focus - Coarse	Focus - Fine



Fill in the blanks with words from your diagram.

3. Always start looking at samples using the smallest _____.
4. Control the amount of light using the adjustable _____.
5. Make your sample look clear by turning the _____ knob.
6. Only use the _____ focus with the longer lenses (objectives).

Name _____

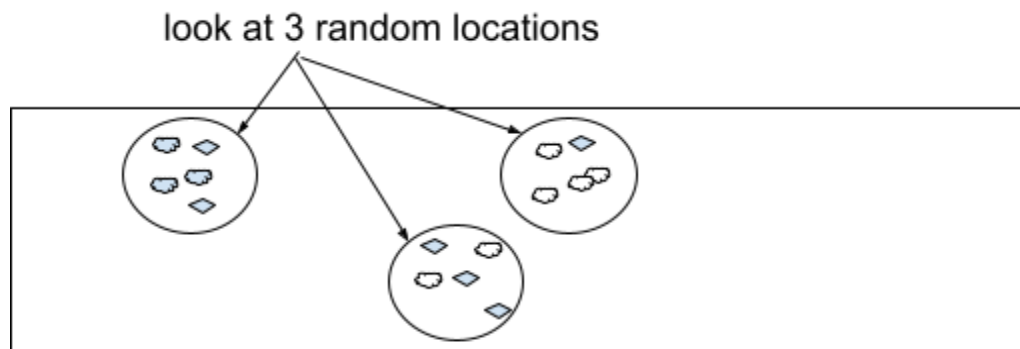
Microscope Parts and Use

Practice - Use these instructions to measure a sample.

Prepare slides by putting different colored dots on them with a Vis-a-Vis.

Steps:

1. Get a sample slide.
2. Make sure your microscope has the shortest lens (4X) pointing down.
3. Place your slide on the stage.
4. Optional - clip in your slide. This depends on the microscope and may restrict movement.
5. Use the course focus to make your sample clear.
6. Switch to the lens - 10X.
7. Focus now only use the FINE focus knob.
8. Estimate the number of different colored dots in your sample.
 - Count the number of each colored dot in your view.
 - Randomly move your slide to a different location. Count again.
 - Repeat one more time so you have looked at 3 locations total.
 - Now, estimate how many of each dot you saw on average.



➤ The count is $3 + 2 + 4$.

Average $9/3 = 3$ in each field of view.

➤ What is the average?