

CARING FOR THE MICROSCOPE

1. Carry a microscope with **two hands**. Support the base with one hand and hold the arm with the other. Hold the microscope upright.
2. Position the microscope on the lab bench so the stage is facing the wall and the eyepiece is facing you.
3. Thoroughly clean the objective lenses and eyepiece.
Use lens paper and alcohol to wipe the ends of all three objective lenses and the eyepiece. Then, wipe the stage (last.)
4. Never horseplay when using a microscope.
5. CLEAN UP:
 - a. **Re-clean** the three objective lenses and the eyepiece with alcohol and lens paper. Wipe off the stage.
 - b. Click the low power objective into place.
 - c. Wrap the cord clockwise around the base of the microscope or use the clips on the microscope.

MAGNIFICATION

Total Magnification = Eyepiece Power (10x) **X** Objective Lens Power

OBJECTIVE	POWER	COLOR	Total Magnification
Low	4x	RED	10 X 4 = 40
Middle	10x	YELLOW	10 X 10 = 100
High	40x	BLUE	10 X 40 = 400

HOW TO FOCUS A MICROSCOPE

1. Position the slide so the specimen is centered above the hole in the stage.
2. Click the low power (RED) objective into place.
3. Using the coarse adjustment (BIG) knob, bring the stage as close to the low power objective as possible (until it will no longer move.)
4. Look through the eyepiece. Turn the coarse adjustment knob SLOWLY away from you until the object comes into focus. (If you are having trouble, focus on the edge of the coverslip and then scan to find the object.) **DO NOT USE THE STAGE CLIPS.**
5. Adjust the light with the diaphragm to allow you to see the most detail.
6. Center the object in your field of view.
7. **Without moving the slide or touching the adjustment knobs**, click the middle power (YELLOW) objective into place.
8. Use the coarse adjustment (BIG) knob to bring the object into clear view. At this point, only slight adjustments will need to be made.
9. Center the object in your field of view.
10. **Without moving the slide or touching the adjustment knobs**, click the high power (BLUE) objective into place.
11. Bring the object into the clearest possible focus by **using only the fine adjustment (LITTLE) knob**. Adjust the light with the diaphragm to allow you to see the most detail.

NOTE: NEVER use the coarse (BIG) adjustment knob under high power.