Microscope

Scientists use microscopes to see very small objects that cannot easily be seen with the eye alone. A microscope magnifies the image of an object so that small details may be observed. A microscope that you may use can magnify an object 400 times—the object will appear 400 times larger than its actual size.



VIEWING AN OBJECT

- 1. Use the coarse adjustment knob to raise the body tube.
- 2. Adjust the diaphragm so that you can see a bright circle of light through the eyepiece.
- 3. Place the object or slide on the stage. Be sure that it is centered over the hole in the stage.
- 4. Turn the nosepiece to click the low-power lens into place.
- 5. Using the coarse adjustment knob, slowly lower the lens and focus on the specimen being viewed. Be sure not to touch the slide or object with the lens.
- 6. When switching from the low-power lens to the high-power lens, first raise the body tube with the coarse adjustment knob so that the high-power lens will not hit the slide.
- 7. Turn the nosepiece to click the high-power lens into place.
- 8. Use the fine adjustment knob to focus on the specimen being viewed. Again, be sure not to touch the slide or object with the lens.

MAKING A SLIDE, OR WET MOUNT



Place the specimen in the center of a clean slide.



Place a drop of water on the specimen.



LAB HANDBOOK

Place a cover slip on the slide. Put one edge of the cover slip into the drop of water and slowly lower it over the specimen.



Remove any air bubbles from under the cover slip by gently tapping the cover slip.



Dry any excess water before placing the slide on the microscope stage for viewing.