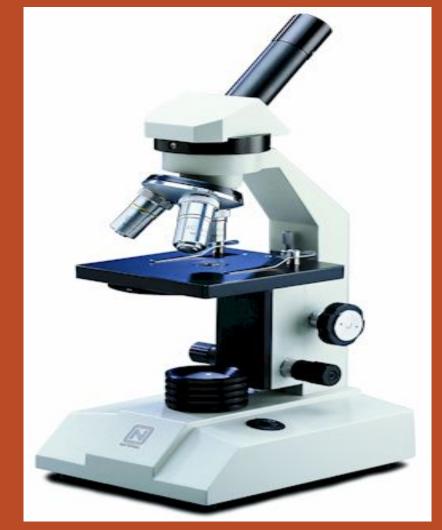
The Compound Light Microscope



What is it?

- The microscope pictured above is a compound light microscope.
- The term *light* refers to the method by which light transmits the image to your eye.
- Compound deals with the microscope having more than one lens.
- Microscope is the combination of two words; "micro" meaning small and "scope" meaning view.



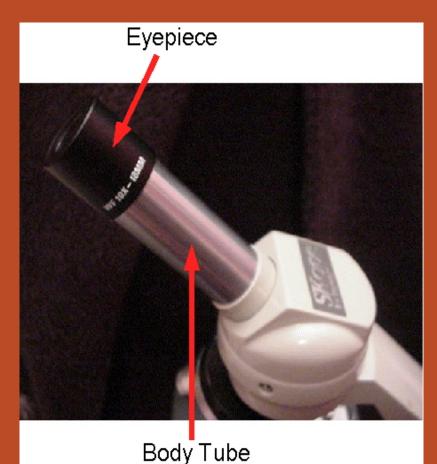
Parts

and

Uses

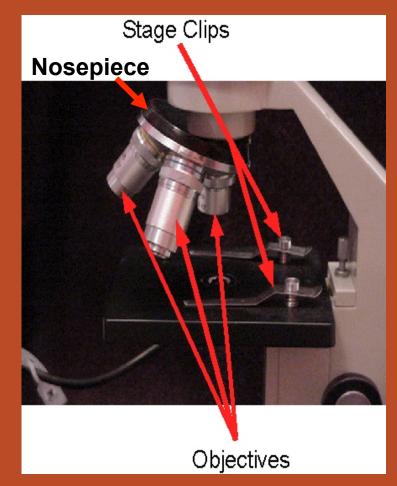
Eyepiece and Body Tube

- The eyepiece contains the ocular lens which magnifies objects a given amount that is listed on the eyepiece.
- The *body tube* supports the eyepiece and objectives.
- How much do our microscopes magnify?



Nosepiece, Objectives, and Stage Clips

- The nosepiece holds the 3 objectives.
- The objective lenses range in magnification from 4X, 10X, and 40X.
- The stage clips holds the slide in place.



Magnification

• What happens as the power of magnification increases?

Total Magnification:





4X Scanning Objective 10X Eyepiece



10X Objective



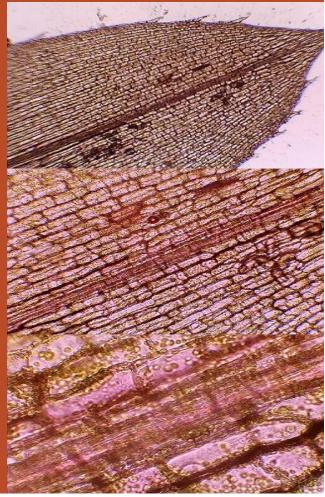
40X Objective



10X Eyepiece

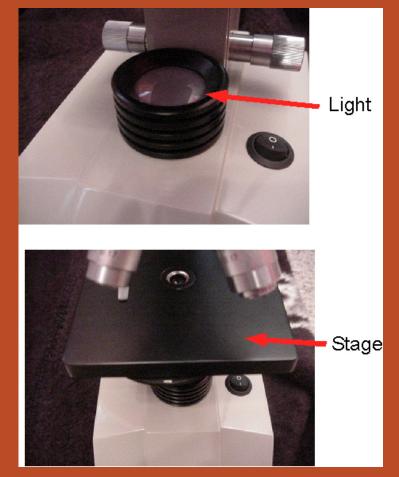


10X Eyepiece



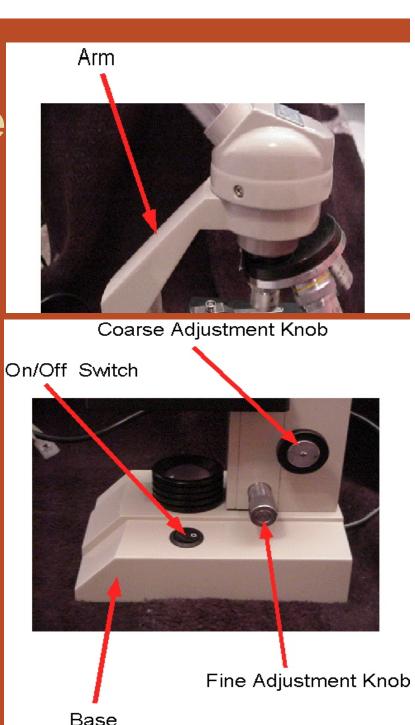
Stage, Light, and Diaphragm

- The stage supports the slide being viewed.
- The *light source* projects upward through the diaphragm, the specimen, and the lenses.
- The *diaphragm* regulates the amount of light on the specimen.



Arm and Base

- The *arm* is used to support the microscope when it is carried.
- The *base* supports the microscope.



Coarse Adjustment Knob

- Moves the stage up and down for focusing.
- NOT TO BE USED WITH ANY OTHER OBJECTIVE BUT THE 4X



Fine Adjustment Knob

 Moves the stage slightly to sharpen the image.

 Used with the 10X and 40X objective to focus.

