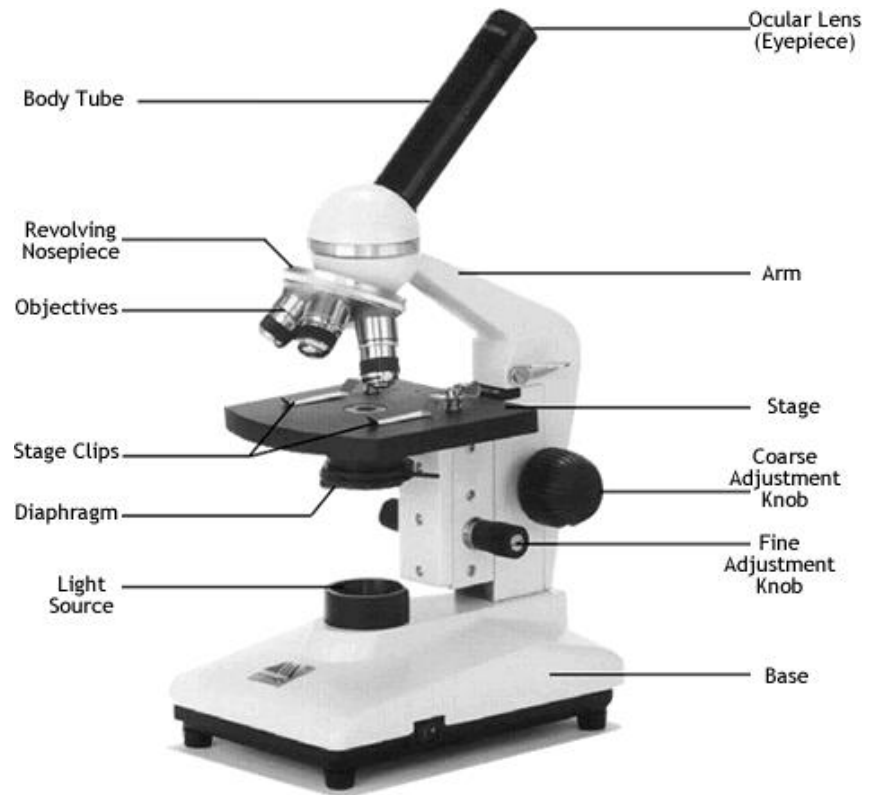


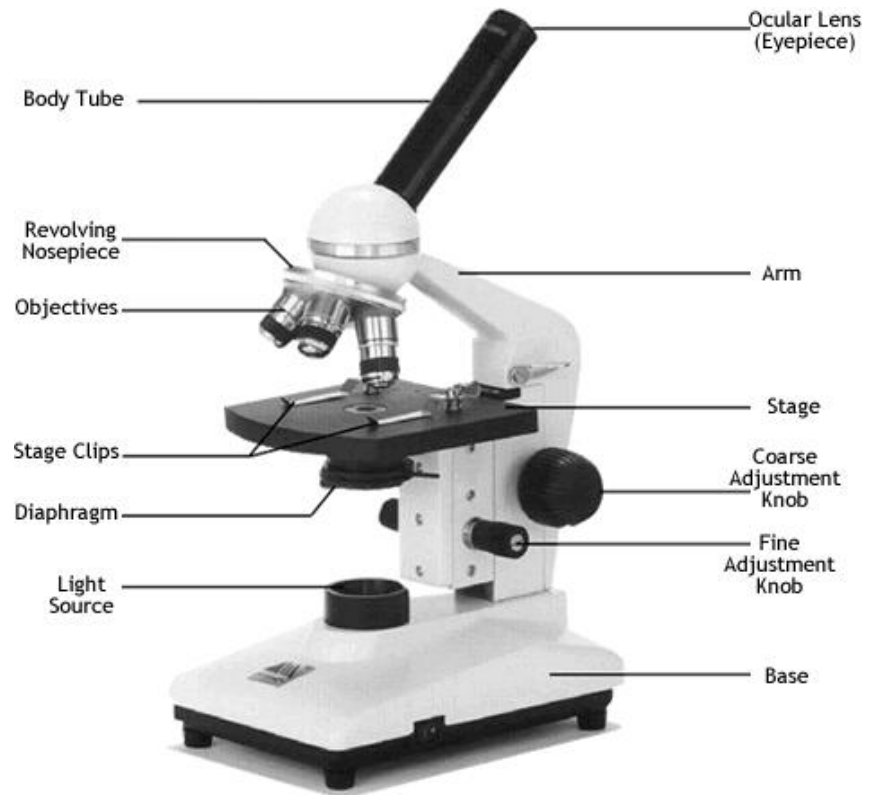
Parts and Function of the Compound Light Microscope

- Base
 - Supports and stabilizes the microscope.
- Light source
 - (lamp or mirror) Provides light for viewing the slide.
- Diaphragm
 - Controls the amount of light passing through the slide.
- Stage and stage clips
 - Holds the slide in place.
- Arm
 - Supports the body tube.



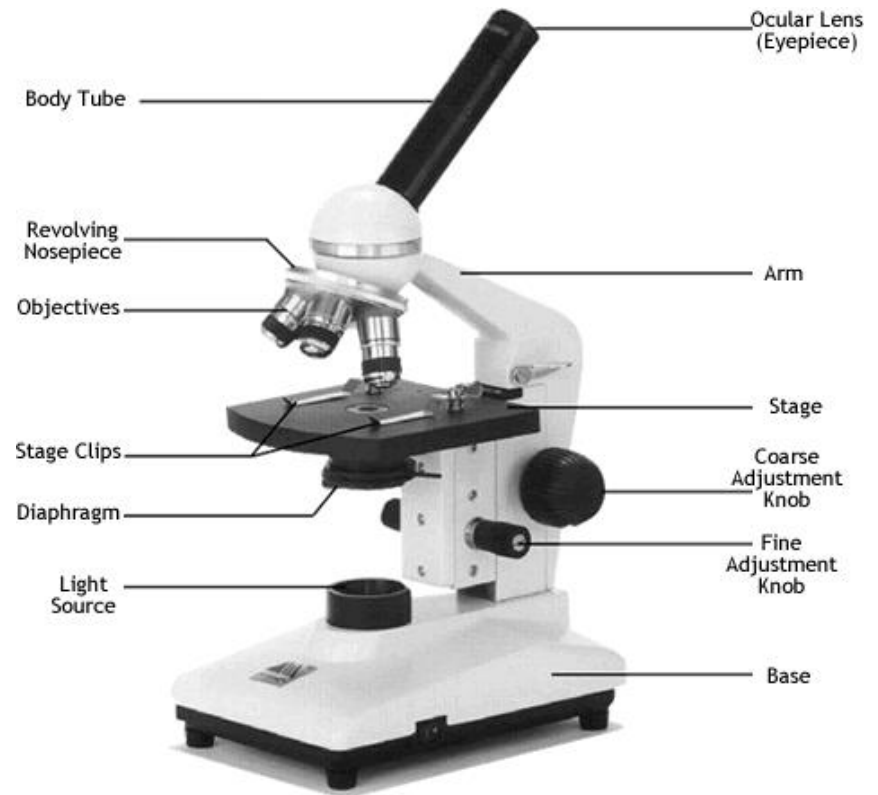
Parts and Function of the Compound Light Microscope

- **Body Tube**
 - Maintains the proper distance between the objective and ocular lenses.
- **Coarse focus adjustment**
 - Moves stage up and down a large amount for coarse focus.
- **Fine focus adjustment**
 - Moves stage up and down a tiny amount for fine focus.



Parts and Function of the Compound Light Microscope

- Objective lenses
 - Focuses and magnifies light coming through the slide.
- Revolving nosepiece
 - Rotates to allow use of different power objectives.
- Eyepiece / ocular lens
 - Magnifies image produced by objective lens.



Basic Microscope Technique

Rules to Follow

- 1. If you must carry a microscope, always hold it with one hand on the arm and the other under the base.
- 2. Always lower the stage or raise the objectives all the way before placing a slide under the objectives.
- 3. Always begin working with the LOW POWER (shortest) objective first.
- 4. Observe the slide from the side, not looking through the eye piece, when using the coarse focus to avoid running the objective lens into the slide.
- 5. Never use the coarse focus adjustment when on the medium or high power objectives. Focus on low power first and then rotate the higher power objective into place. Make final focus adjustments with the fine focus adjustment.

Copy and Answer Each Question

- 1. The lens closest to your eye when you use a microscope is the _____
- 2. When using the microscope, always begin work with the _____ objective first.
- 3. Which knob should you never use while on medium or high power? Explain why.
- 4. The lens closest to the slide is the _____
- 5. When using the coarse focus knob, how should you be view the slide? Explain why.
- 6. Carry the microscope with one hand on the _____ and the other on the _____.