

Experiment 1: Study of Compound Microscope

OBJECT

It is instrument to magnify small objects.

Microscope is of three types:

1. **Optical:** With the help of light, mirror and lenses magnifies the image.
2. **Electron microscope:** Here electrons or ions are used to magnify the image.
3. **Scanning microscope.**

The most common microscope is compound microscope which is widely used in school, college and educational institute.

Parts of Microscope

1. **Microscope arm:** Carrying handle.
2. **Eyepiece:** Lens near to eye to visualize and focus the image.
3. **Objective lens:** These are major lenses used to visualize the object or specimen.
4. **Adjustment Knob**
 - i. **Coarse:** For coarse adjustment.
 - ii. **Fine:** For fine adjustment or focusing.
5. **Eyepiece tube:** It is eyepiece holder.
6. **Microscope base:** Provide foundation.
7. **Mirror:** It helps in illumination of objects.
8. **Stage and stage clips:** For keeping slide in proper place and also help in movement of slide while focusing.
9. **Nosepiece:** Hold the object lenses above the stage and rotates so that all lenses may be used.
10. **Diaphragm:** Situated below stage.

