

Compound Microscope

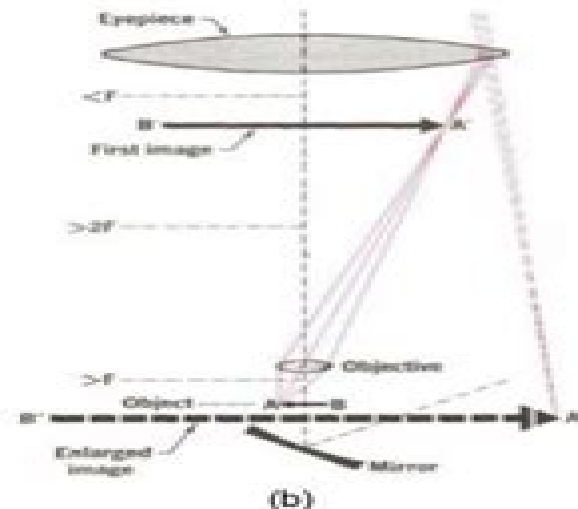
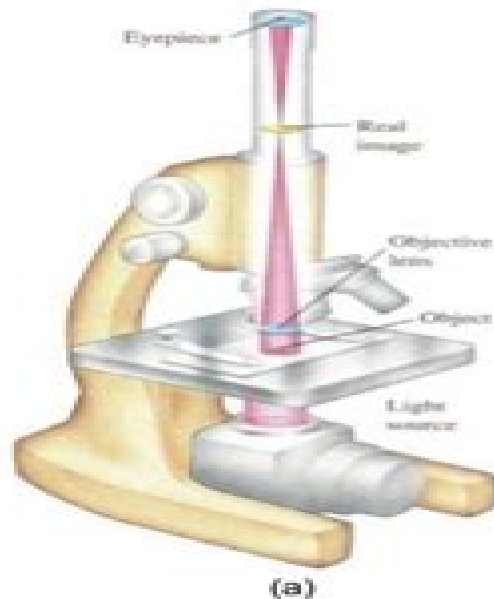


Fig. 2.2
(a) Elements of a compound microscope; (b) Ray diagram of image formation in a compound microscope

A compound microscope makes a small object look bigger so that our eye can see it. A compound microscope consists of two converging lenses of short focal lengths: the objective lens and the eyepiece lens. The object is placed close to the focal point of the objective lens to form the first image, which is an enlarged, real and inverted image. This image falls between the eyepiece lens and its focus and becomes the object for the eyepiece lens. The eyepiece forms a final virtual and enlarged image at a distance of 25 cm for distinct vision. This final image in the microscope becomes the object for the eye which forms a real image on the eye's retina.

Telescope

A telescope is used to make distant objects look closer and appear bigger. It consists of two converging lenses: the objective lens with a long focal length and the eyepiece lens with a short focal length. The objective lens is used to collect light from a distant object and to form the first image. The eyepiece lens is a magnifying lens which produces a final virtual image at a distance.

Module 4 Optical Instruments

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