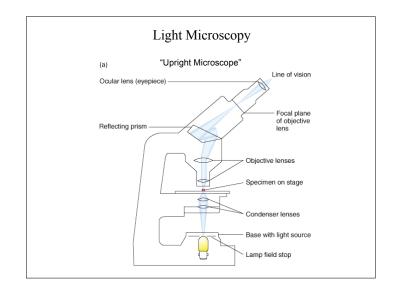
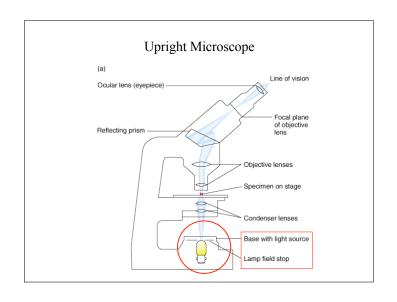
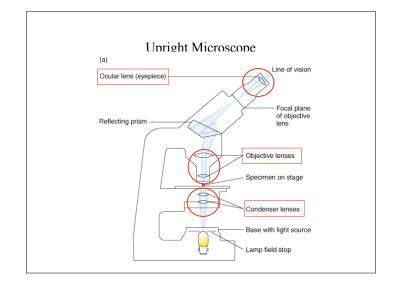
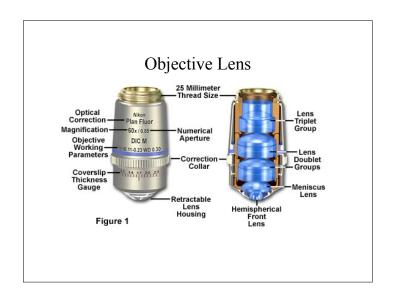


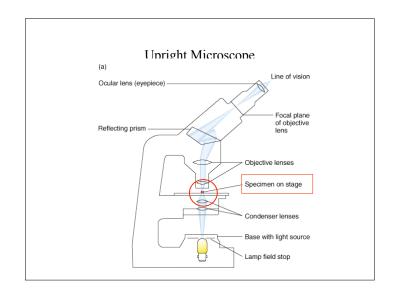
1665	Hooke publishes Micrographia
1678	van Leeuwenhoek observes protozoa ("little animals")
1838-9	Schleiden & Schwann proposed "Cell Theory"
1860	Pasteur confirms Cell Theory
1931	Ruska invents electron microscope
1932	Zerniki develops phase contrast microscopy
1955	Minsky invents the laser scanning microscope (LSM)
1989	Webb, Denk & Strickler invent multiphoton LSM

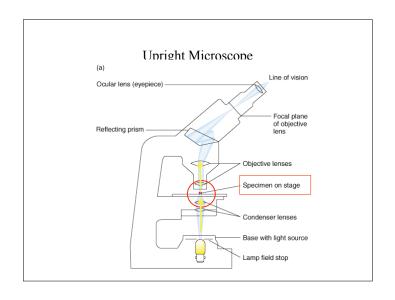












Specimen

- > Must be "transparent" to visible light
- > Usually either single cells, or ...
- > A thin section of tissue
- > Usually "stained" to reveal structures of interest

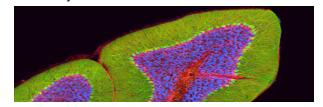
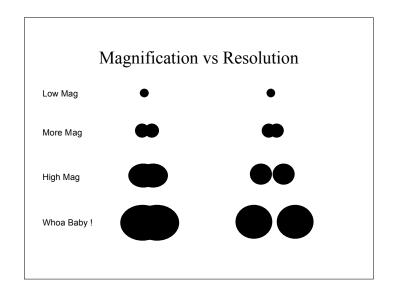


Image is NOT Everything

The image is the product of the interaction of incident light with the object.

Light must INTERACT with the object

Light interacts with objects through wave-like and particle-like properties.



Diffraction pattern of a saw blade

