

Dimensions

Microscopes are designed to create highly magnified views of very, very small objects. It is often helpful to have an idea of the sizes of the objects viewed with the microscope compared to the sizes of known objects.

Dimensions

1 meter = 100 centimeters
 = 1,000 millimeters
 = 1,000,000 microns
 = 1,000,000,000 nanometers

1 millimeter = 1,000 microns
 = 1,000,000 nanometers

1 micron = 1,000 nanometers

1 inch = 2.54 cm
 = 24.5 mm

1 micro inch = 24.5 nm

Size

Human hair = 75 micron in diameter
 Hydrogen Atom = 0.2 nm in diameter

Magnification

Magnification of 1,000 1 micron is viewed as 1 mm

Magnification of 1,000,000 1 nm is viewed as 1 mm