

NEW TOPIC: Cell Structure

& Transport

- Topic 1 -

Light Microscope → magnifies up to $\times 2000$

- Place specimen on slide, stain with iodine and cover with cover slip.
- Place slide on stage and select correct objective ~~ser~~ lens
- Turn course focus knob and then fine focus knob

Electron Microscope → magnifies up to $\times 2$ million

- Need high level of training
- Expensive equipment
- Allows you to view the sub-cellular structure

Resolution is the ability to distinguish between two separate points.

Magnification
fraction

$$= \frac{\text{size of image}}{\text{size of actual}}$$



Units of measures:

- G giga $\times 10^9$
- M mega $\times 10^6$
- K kilo $\times 10^3$
- m milli $\times 10^{-3}$
- μ micro $\times 10^{-6}$
- n nano $\times 10^{-9}$
- p pico $\times 10^{-12}$