CONCEPT: MAGNIFICATION, RESOLUTION, & CONTRAST

●Effective microscopy requires a balance of the following _____ terms:

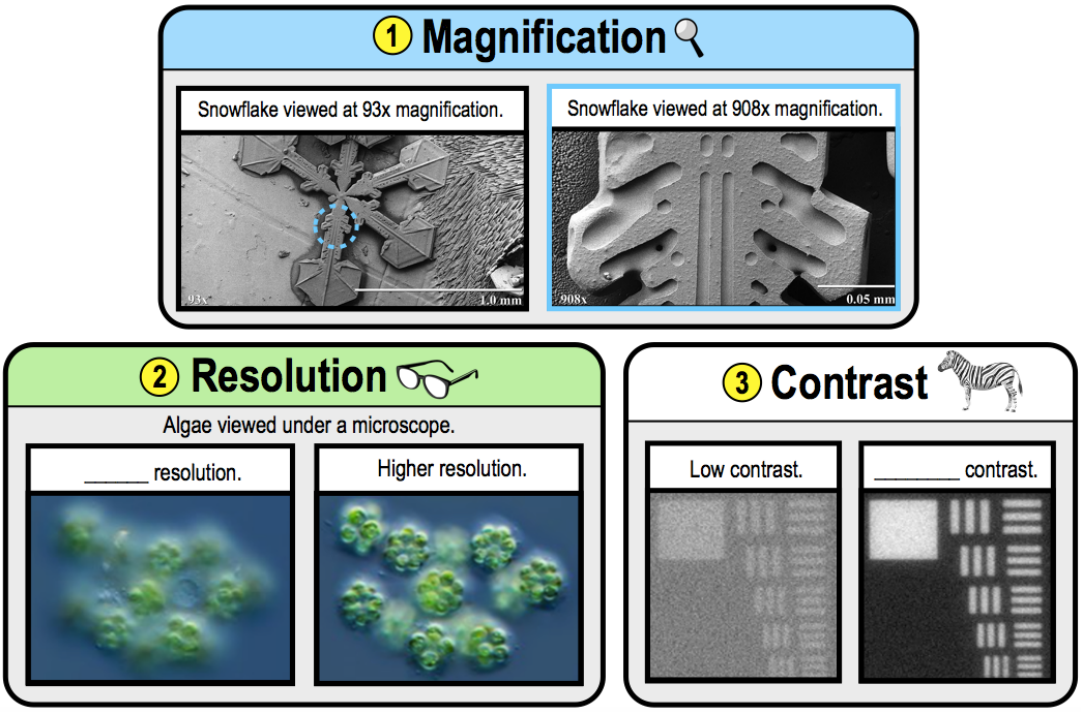
1) **Magnification**: an apparent increase in the size of an image through the use of _____.

2) **Resolution**: the _____ *distance* two objects must be to observe them as being *separate*.

□ **Resolving Power**: a measure of the ability to *distinguish* _____ objects that are very close together.

3) **Contrast**: *difference* in *color/light intensity* between an object and its _____.

□ Determines how easily cells & cell structures can be seen.



PRACTICE: The resolving power of a microscope is described as the ability of the microscope to…

a) Visually separate two objects that are very close together.

b) Magnify an object.

c) Differentiate the colors of the specimen from the background.

d) See structures at various depths in a tissue.

PRACTICE: If you can only increase one of the following, which would you increase to observe more details of the microscopic specimen?

a) Increase the magnification.

b) Increase the resolution.