

CONCEPT: MICROSCOPES

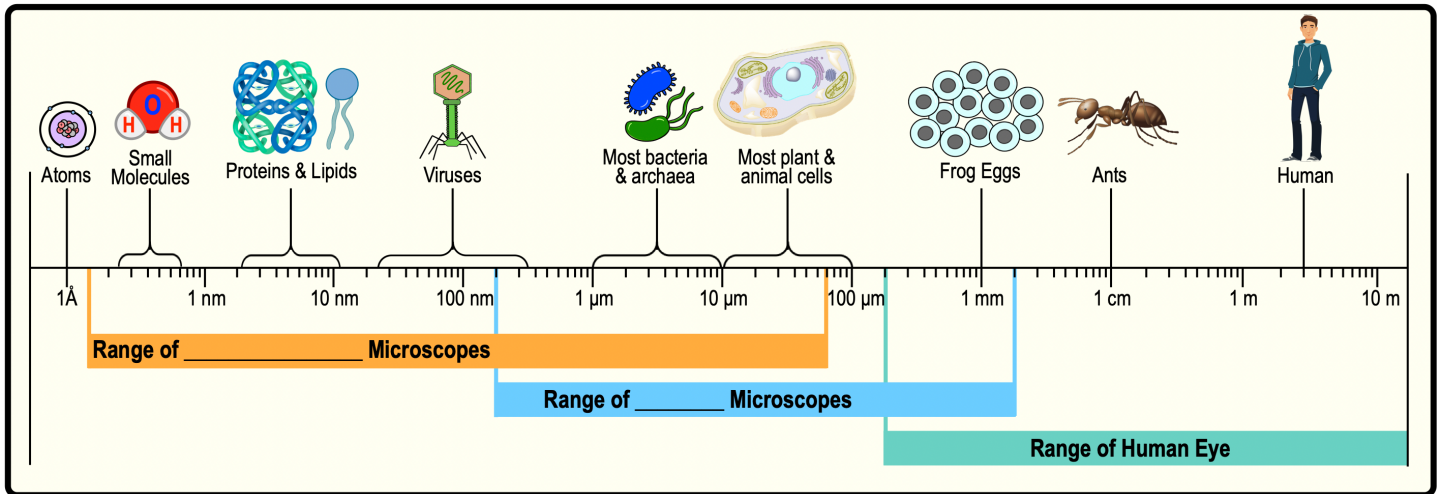
● **Microscope:** an optical _____ used to visualize _____scopically *small* objects (ex. *cells*).

□ _____ main types of *microscopes* are commonly used:

1) **Light Microscopes:** uses _____ to magnify small objects.

2) **Electron Microscopes:** uses _____ for a *higher magnification* of small objects.

EXAMPLE: Ranges of the Human Eye, Light Microscopes, & Electron Microscopes.

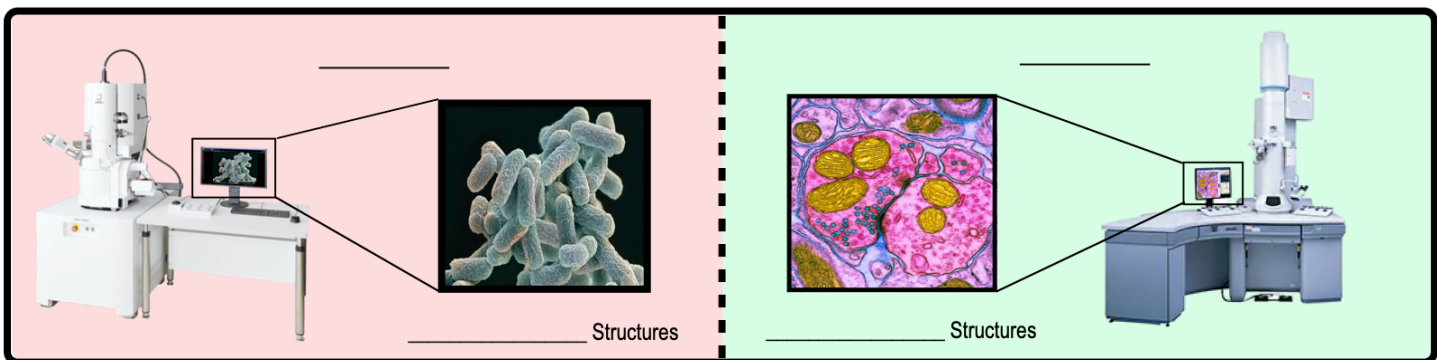


Types of Electron Microscopes

● _____ types of electron microscopes are used to study *external* & *internal* cell structures:

□ **Scanning Electron Microscope** (_____): visualizes _____ cell surfaces.

□ **Transmission Electron Microscope** (_____): visualizes _____ cell structures.



PRACTICE: What type of microscope would a researcher use to measure the size of a ribosome inside a eukaryotic cell?

- a) A magnifying glass.
- b) Standard light microscope.
- c) Transmission electron microscope.
- d) Scanning electron microscope.