Microscopy

- ➤ Light Microscopy
 - o Maximum Magnification- 1000x
 - Maximum resolution 10 micrometer (um)
- ➤ Electron Microscopy
 - o Maximum magnification 10,000,000x
 - Maximum Resolution

Cell Fractionation

➤ A way to isolate different components of cells for detailed study

Two classification of Cells:

- ➤ Prokaryotic
 - o simple (no membrane bound organelle)
 - o small in size

 - Call only perform one major task at a time
 No membrane bound organelles "little organisms arryotic
 Complex
- ➤ Eukaryotic
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DNA in a nucleus (control center for the cell- like the brain in the human body)

- Able to multi-task (perform several jobs at once)
- Membrane bound organelles "little organ" that help the cell perform several functions at once
- Two main types: animal and plant cells
- > Both contain:
 - o DNA
 - Cell (plasma) membrane
 - o Ribosomes
 - Cytoplasm

Osmosis and Tonicity

- ➤ Osmosis- diffusion of water
- > Tonicity
 - Isotonic-same concentration inside as out.
 - Hypertonic- higher concentration outside cell than in
 - Hypotonic- less dissolved particles inside the cell than out