## Chapter 8: Section 2 Student Notes

Photosynthesis

* Process by which light energy is converted to chemical energy.
  + Provides energy for almost all life

Stages of Photosynthesis

* Stage 1:
  + \*Energy is capture from the sun
* Stage 2:
  + \*Light energy is converted to chemical energy
* Stage 3:
  + \*Chemical energy stored as ATP and NADH powers the formation of organic compounds by using carbon dioxide (CO2).

Photosynthesis Occurs in:

* + The cholroplast
  + The cell membrane of certain prokaryotes
  + Summary of photosynthesis:
    - 6CO2 + 6 H2O ---light---> C6H12O6 + 6O2

Photosynthesis

* Plants use photosynthesis to carry out life processes.
* Example:
  + Sugars used for starch (stored in stems & roots)
  + Starch is broken down as ATP (used to power metabolism)