## 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)