

## Bio I

### Notes: Chloroplast – Photosynthesis (Part Three)

Products of the Light-dependent reaction:

*Calvin cycle – Light-independent reaction (Dark reaction)*

- Location:
- Brief summary of process:

- Process:

1.

2.

3.

4.

5.

6.

*The Calvin cycle is started with CO<sub>2</sub>, which is made up of only one carbon. The carbon from CO<sub>2</sub> is responsible for making the 6-carbon structure of glucose. The Calvin cycle must break down **SIX** CO<sub>2</sub> molecules therefore is cycled **SIX** times.*

Website of animation used in class: [http://faculty.nl.edu/jste/calvin\\_cycle.htm](http://faculty.nl.edu/jste/calvin_cycle.htm)

Three main events of photosynthesis

1.

2.

3.

Summative formula for photosynthesis:

Components of summative equation	Reaction present	Purpose / Explanation
<i>Sunlight energy</i>		
<i>H<sub>2</sub>O</i>		
<i>CO<sub>2</sub></i>		
<i>C<sub>6</sub>H<sub>12</sub>O<sub>6</sub></i>		
<i>O<sub>2</sub></i>		