

**HIGH SCHOOL CORNELL NOTES**

**Date:** 04/26/2023 **Class:** Biology 101

**Teacher:** Mr. Smith **Topic:** Photosynthesis

**Cue Column**

**Objectives:** Understand the process of photosynthesis and the role of chlorophyll in the conversion of sunlight to chemical energy

**Note-Taking Area**

***Chlorophyll***

***Definition:*** Green pigment found in plants that absorbs sunlight and is involved in photosynthesis

***Photosynthesis***

***Definition:*** Process by which plants convert sunlight, CO2, and H2O into glucose and oxygen

***Question 1***

***What are the main inputs and outputs of photosynthesis?*** Inputs: Sunlight, CO2, and H2O

Outputs: Glucose and O2

***Main Idea 1***

***Two stages of photosynthesis:***

1. Light-dependent reactions

2. Light-independent reactions (Calvin Cycle)

***Main Idea 2***

***Role of chlorophyll:***

Chlorophyll absorbs sunlight to convert light energy into chemical energy (ATP & NADPH)

**Summary**

Photosynthesis is a process in plants that involves converting sunlight, CO2, and H2O into glucose and oxygen. Chlorophyll, a green pigment in plants, is crucial for absorbing sunlight during the process. Photosynthesis consists of two stages: light-dependent and light-independent (Calvin Cycle) reactions.

**Reflection / Self-Assessment**

I understand the basic process of photosynthesis and the role of chlorophyll. However, I still find the detailed mechanisms of the light-dependent and light-independent reactions confusing. I will review these concepts and ask Mr. Smith for clarification during the next class.