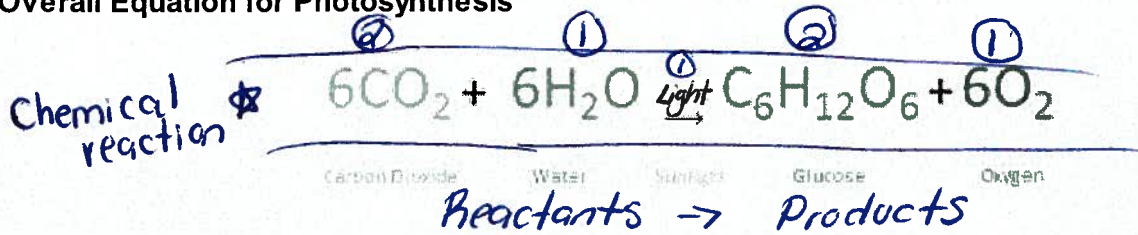


# Guided Notes - Photosynthesis

What is Photosynthesis? Process that autotrophs use to convert light energy (sun) to chemical energy (Glucose)

Occurs in the chloroplast of the cell.

## Overall Equation for Photosynthesis



## Two Phases/Steps of Photosynthesis

### 1. Light Reaction

a. Occurs in the thylakoid of the chloroplast.

NEEDS: Light  
Water (H<sub>2</sub>O)

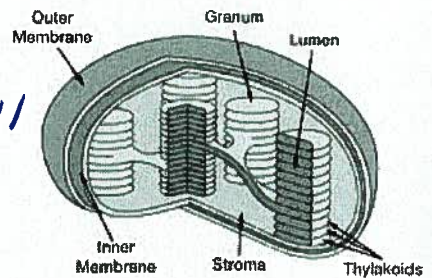
PRODUCES: Oxygen

NADPH & ATP

are needed for the next phase of photosynthesis.

An electron transport chain is involved in generating the NADPH & ATP.

Chloroplast



### 2. Light INdependent/Dark Reaction (AKA Calvin Cycle)

a. Occurs in the stroma of the chloroplast.

NEEDS: NADPH      Carbon Dioxide  
ATP

PRODUCES: Glucose

Photosynthesis is an energy storing process.

"Anabolic"

