

## STAGE 1

### Light-dependent reactions

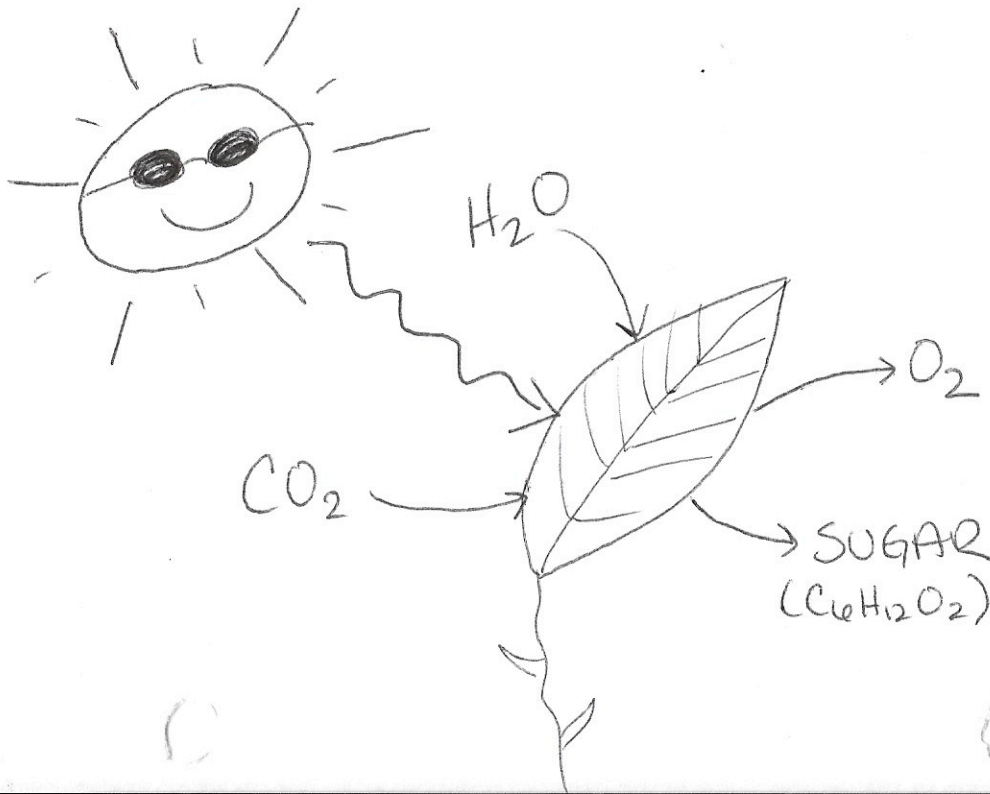
- chlorophyll absorbs energy from SUNLIGHT! ☀️
  - chlorophyll is found inside the chloroplast organelle.
- This process is in the THYLAKOID

# PHOTOSYNTHESIS REACTIONS:

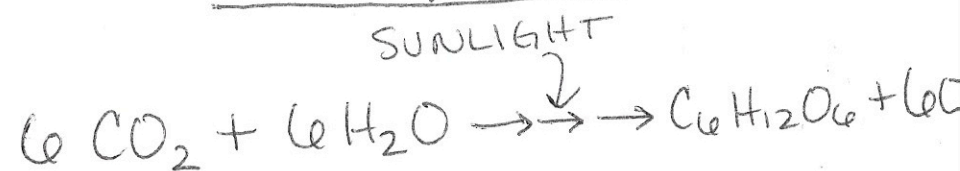
## STAGE 2

### Light-independent reactions

- aka: the CALVIN CYCLE
- uses CO<sub>2</sub> (carbon dioxide) to form SUGARS  
(glucose = C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>)



### Photosynthesis:



or  
6 Carbon Dioxide + 6 Waters  $\xrightarrow{\text{SUNLIGHT}}$  Glucose + Oxygen