

KEY TERMS INCLUDED!

PHOTOSYNTHESIS

KEY TERMS

- Process that occurs in plant cells
- Uses light energy to make glucose
- Takes place in the chloroplast
- Two stages
 - Light-dependent reaction
 - Light-independent reaction

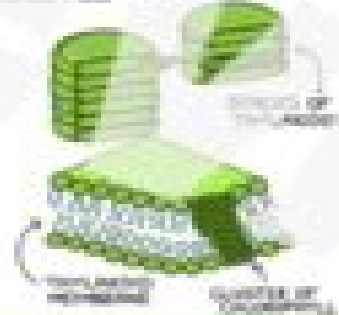
PLANT CELL



- Plants have openings on their leaves called stomata
- Stomata open and close to let the reactants and products out



- Photosynthesis occurs in the chloroplast
- Chloroplasts contain green pigment called chlorophyll
- Plants have large significant number of chloroplasts in green
- Chlorophyll pigment is embedded in the membranes of the flattened structure of the chloroplast
- The green pigment that is used for photosynthesis



- Chloroplasts have outer double membrane
- Filled with stroma and grana



Light-Dependent Reaction

- First light reactions
- First step of photosynthesis
- Converts light energy to chemical energy
 - makes two molecules: ATP (energy storage) and NADPH (electron carrier)
- Takes place in the fluid-filled membrane inside chloroplast



Light-Independent Reaction

- Also called: Calvin Cycle
- Second step of photosynthesis
- Uses the products: ATP and NADPH from the light-dependent reaction
- ATP + NADPH provides the energy to make glucose
- Takes place in the stroma of the chloroplast



ONE PAGE STUDY GUIDES CONDENSE TOPICS DOWN INTO THE MOST ESSENTIAL PARTS

Photosynthesis Review Guide Biology

Didier Musso



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