

Lesson 7: Photosynthesis

Photosynthesis

- The only biological process that can capture energy that originates in outer space (sunlight) and convert it into chemical compounds (carbohydrates) that every organism uses to power its metabolism.
- Almost all plants are photosynthetic autotrophs, as are some bacteria and protists.
 - Autotrophs generate their own organic matter through photosynthesis
 - Sunlight energy is transformed to energy stored in the form of chemical bonds

Organisms capable of doing photosynthesis.

This process is used by plants and other organisms to convert light energy into chemical energy that can later be released to fuel the organisms' activities, usually in the form of sugars (fruits, starch, etc.)

Why plants are green?

- Plant Cells have Green Chloroplasts
- The thylakoid membrane of the chloroplast is impregnated with photosynthetic pigments (i.e., chlorophylls, carotenoids).

In most plants, photosynthesis occurs primarily in the leaves, in the chloroplasts. A chloroplast contains: stroma, fluid, grana, stacks of thylakoids

The thylakoids contain chlorophyll: Chlorophyll is the green pigment that captures light for photosynthesis.

Photosynthesis is the process by which autotrophic organisms use light energy to make sugar and oxygen gas from carbon dioxide and water.

OVERVIEW OF PHOTOSYNTHESIS

1. **Light Reaction** - converts solar energy to chemical energy to produce ATP & NADPH.
2. **Calvin cycle** - makes sugar from carbon dioxide.
 - ATP generated by the light reactions provides the energy for sugar synthesis

Chapter Lesson 7 Energy In Cells An Answers

AN Whitehead



Chapter Lesson 7 Energy In Cells An Answers:

Adopting the Tune of Expression: An Mental Symphony within **Chapter Lesson 7 Energy In Cells An Answers**

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