

Chapter 7: Photosynthesis: Using Light to Make Food

Opening Essay

1. Explain how plants can be used as a renewable energy source. Explain why this is better than burning fossil fuels.

An Overview of Photosynthesis

2. Define autotrophs, producers, and photoautotrophs.
3. Describe the structure of chloroplasts and their location in a leaf. Identify specifically where most light energy is converted to chemical energy.
4. Explain how plants produce oxygen. Describe the experiments that revealed the source of the oxygen produced during photosynthesis.
5. Describe the role of redox reactions in photosynthesis and cellular respiration.
6. Compare the reactants and products of the light reactions and the Calvin cycle. Explain how photosynthesis relates to these reactions.

The Light Reactions: Converting Solar Energy to Chemical Energy

7. Describe the properties and functions of the different photosynthetic pigments.
8. Explain how photosystems capture solar energy.
9. Explain how the electron transport chain and chemiosmosis generate ATP, NADPH, and oxygen in the light reactions.
10. Compare photophosphorylation and oxidative phosphorylation.

The Calvin Cycle: Converting CO₂ to Sugars

11. Describe the reactants and products of the Calvin cycle. Explain why this cycle is dependent upon the light reactions.
12. Photosynthesis Reviewed and Extended
13. Review the overall process of the light reactions and the Calvin cycle, noting the products, reactants, and locations of every major step.
14. Compare the mechanisms that C₃, C₄, and CAM plants use to obtain and use carbon dioxide. Note examples of plants that use each of these systems.

Photosynthesis, Solar Radiation, and Earth's Atmosphere

15. Describe the greenhouse effect. Explain how deforestation and the use of fossil fuels contribute to global warming.
16. Explain how the ozone layer forms, how human activities have damaged it, and the consequences of the destruction of the ozone layer.

Photosynthesis Ap Bio Study Guide Answers

Lauren Gardner



Photosynthesis Ap Bio Study Guide Answers:

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