

Chapter 8: Photosynthesis

State Standards

- 2-4 Identify the reactants, products, and basic purposes of photosynthesis and cellular respiration. Explain the interrelated nature of photosynthesis and cellular respiration in the cells of photosynthetic organisms.

Key Terms

ATP / ADP
Heterotroph
Autotroph
Photosynthesis
Pigment
Chlorophyll
Thylakoid

Stroma
NADP⁺
Light-Dependent Reactions
Light-Independent Reactions
Chloroplast
Photosystem
Electron Transport Chain

ATP Synthase
Calvin Cycle
Grana
Electron Carrier
Glucose
C4 Photosynthesis
CAM Plants

You should be able to:

1. Describe the role of ATP in cellular activities.
2. Explain where plants get the energy they need to produce food (glucose).
3. Explain the role of light and pigments in photosynthesis.
4. Explain the role of electron carrier molecules in photosynthesis.
5. State the overall equation for photosynthesis in both words and symbols.
6. Describe what happens during the light-dependent reactions of photosynthesis.
7. Describe what happens during the light-independent reactions of photosynthesis.
8. Identify factors that affect the rate at which photosynthesis occurs.

You should know the difference between:

- Photosynthesis and Cellular Respiration
- ADP and ATP
- Heterotroph and Autotroph
- Chlorophyll and chloroplast
- Be able to distinguish between all of the parts of a chloroplast (stroma, grana, thylakoid, outer membrane, inner membrane, and chlorophyll) and describe what occurs at each location.
- Light-Dependent Reactions and Light-Independent Reactions
- C4 Photosynthesis, CAM Plants, and regular photosynthesis

Chapter 8 Photosynthesis Study Guide

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