

Answers to Chapter 10 Study Questions

1. What is the difference between a heterotroph and an autotroph? Heterotrophs do not make their own food and they must live on organic compounds produced from other organisms. These organisms are dependent on photoautotrophs for food and oxygen and are referred to as consumers. Autotrophs produce organic molecules from CO_2 and other inorganic molecules obtained from the environment. These organisms are the ultimate source of organic compounds for all nonautotrophs and are referred to as producers.

Cite an example of a photoautotroph that lives on land (plants such as ferns) and one that lives in an aquatic environment (multicellular algae, cyanobacteria, unicellular protists)? How do both heterotrophs and autotrophs generate the ATP that cells need to perform chemical, transport, or mechanical work within a cell? Both heterotrophs and autotrophs generate most of the ATP needed to conduct the work of cells through cellular respiration. Note: plant cells contain both chloroplasts and mitochondria.

2. What type of energy is transferred during photosynthesis? Light energy (kinetic energy) is transferred to chemical energy (glucose). Within a leaf, where does photosynthesis take place? Photosynthesis takes place within the chloroplasts of mesophyll cells. More specifically where are many of the enzymes that regulate the light reactions of photosynthesis located within the chloroplast? The thylakoid membrane contains enzymes that are important for the light reactions. Where are chlorophyll pigments found within the chloroplast? Chlorophyll pigments are also embedded within the thylakoid membrane.

3. The summary equation for photosynthesis can be presented three ways. Which equation is the reverse of cellular respiration? $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$. Is glucose the direct product of photosynthesis? No photosynthesis generates a 3 carbon sugar (glyceraldehyde-3-phosphate, G3P) that is used to make glucose and other organic molecules.

4. Using the following equations for photosynthesis, answer the questions listed below.



Which reactant donates electrons? H_2O

Which reactant accepts electrons? CO_2

Which product is a reduced molecule? Glucose

Which reactant provides the oxygen atoms found in O_2 ? H_2O

Which reactant provides the hydrogen atoms found in glucose? H_2O

Why is photosynthesis an endergonic reaction? Energy is needed to drive the transfer of electrons from water to glucose. These electrons gain potential energy when they are incorporated into glucose.

5. Use the following table to answer this question on the stages of photosynthesis:

	Light Reactions	Calvin Cycle
Where does it take place in the chloroplast?	Thylakoid membranes	Stroma
What is the function of this stage of photosynthesis	Converts solar energy into chemical energy	Incorporates CO_2 into organic molecules which are converted to sugar
What is the energy source	Light	Chemical Energy (ATP and NADPH)

Chapter 10 Study Guide Answer Scf

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