

## 4.2 Study Guide | Overview of Photosynthesis | KEY

Directions: Answer the questions using your notes, your knowledge, and or section 4.2 from the textbook.

1. Why are some organisms called producers? What is another name for a producer?

They produce chemical energy for themselves and other organisms. Producer = Autotroph.

2. What is the function of photosynthesis?

To convert sunlight into sugars.

3. What is chlorophyll?

A molecule in chloroplasts that absorbs light energy.

4. What are chloroplasts?

Organelles where photosynthesis takes place.

5. In which two parts of a chloroplast does photosynthesis take place?

Grana and the stroma.

6. What are thylakoids?

Coin shaped compartments that contain chlorophyll and are found in grana.

7. Write the chemical equation for the overall process of photosynthesis.

- a. Identify the reactants, products, and the meaning of the several arrows.



8. Explain what the equation of photosynthesis means.

Carbon dioxide and water, the reactants, enter photosynthesis.

Through many chemical reactions...

A six carbon sugar and oxygen are formed, the products.

9. The prefix *in-* means "not." How does this meaning tell you which reactions in photosynthesis require light, and which reactions do not?

Light (in)dependent reaction do NOT require oxygen, while light dependent reactions require oxygen.

10. What are the differences between the light-dependent reactions and the light-independent reactions?

Light-dependent reactions: Requires sunlight & H<sub>2</sub>O, takes place in thylakoids, creates O<sub>2</sub> & some ATP.

Light-independent reactions: Does NOT require sunlight, requires CO<sub>2</sub>, takes place in the stroma, creates sugars.

# 4 2 Study Guide Overview Of Photosynthesis Worksheet Key

**Albert Kaskel**



## 4 2 Study Guide Overview Of Photosynthesis Worksheet Key:

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*Environmental Issues (ENHANCED eBook)* Edward P. Ortleb,Richard Cadice,1986-09-01 This book is a study of the factors which influence the relationships between living things and the environment Special consideration is given to those human activities which adversely affect our environment Each of the twelve teaching units in this book is introduced by a color transparency print books or PowerPoint slide eBooks that emphasizes the basic concept of the unit and presents questions for discussion Reproducible student pages provide reinforcement and follow up activities The teaching guide offers descriptions of the basic concepts to be presented background information suggestions for enrichment activities and a complete answer key      Audiovisual Guide to the Catalog of the Food and Nutrition Information and Educational Materials

Center Food and Nutrition Information Center (U.S.),1977 Over 400 entries to audiovisual materials received by FNIC before 1977 Includes motion pictures slides flashcards videocassettes charts filmstrips records posters transparencies film loops phonodiscs audiotapes games audiocassettes kits puzzles and models Entry gives accession number bibliographical information FNIC call number descriptors and abstract Subject author title and media indexes Contains loan information

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