

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 & H₂O, takes place in thylakoids, creates O₂ & some ATP.

Light-independent reactions: Does NOT require sunlight, requires CO₂, takes place in the stroma, creates sugars.

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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 Conservation: Waterway Habitat Resources: Changes in Freshwater Aquatic Ecosystems Caused By Human Activity Gr. 5-8 George Graybill,2017-05-11 This is the chapter slice Changes in Freshwater Aquatic Ecosystems Caused By Human Activity Gr 5 8 from the full lesson plan Conservation Waterway Habitat Resources Students will become aware of aquatic ecosystems facing severe change around the globe Our resource focuses on recognizing how climate change and human activities are affecting their delicate balances Become an ecologist and list factors in an aquatic ecosystem as biotic or abiotic Visit an aquatic ecosystem near your home and learn as much as you can through careful observations Find out why some aquatic organisms have a hard time adapting to climate change Explore the effects of human activity on aquatic ecosystems Spend some time at your local aquarium to be a part of the aquatic ecosystem Get a sense of what s to come as you look at the rate of extinction of marine species Find out what we can do to restore aquatic dead zones Written to Bloom s Taxonomy and STEAM initiatives additional hands on activities graphic organizers crossword word search comprehension quiz and answer key are also included

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