

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.

4 2 Study Guide Overview Of Photosynthesis Worksheet Key

Michael Rajnik



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