

Photosynthesis Lab Review Questions

1. The process of photosynthesis converts solar energy into chemical energy which is stored in the bonds of
A. grass
B. oxygen
C. glucose
D. thylakoid
E. carbon dioxide
2. In what structure of the chloroplast do the light dependent reactions occur?
A. stroma
B. nucleus
C. thylakoid
D. chloroplast
E. mitochondria
3. In what structure of the chloroplast do the light independent reactions occur?
A. stroma
B. nucleus
C. thylakoid
D. chloroplast
E. mitochondria
4. Which of the following not accept electrons during the light reactions of photosynthesis?
I. NADP II. DPFP III. ATP IV. ADP
A. I only
B. II only
C. I and II
D. II and IV
E. I, II, III, and IV
5. Which of the following provides the chemical energy needed for the light independent reactions (Calvin cycle)?
I. NAD II. ADP III. ATP IV. NADPH
A. I only
B. II only
C. IV only
D. I and II
E. III and IV
6. What are the two main events of photosynthesis?
7. Where, specifically, do the Calvin cycle reactions occur?
8. Name three chemicals that are needed by the Calvin cycle and underline the two that are produced in the light reactions.
9. How many carbon dioxide must enter the Calvin cycle in order to form a single glucose molecule? How many molecules of ATP and NADPH are needed to form a single glucose molecule?
10. Give three examples of energy rich and products of the dark reactions of photosynthesis.
11. Describe how the Calvin cycle is dependent upon the events of the light reactions.
12. Write a chemical equation that describes the process of photosynthesis.
13. Why do the disks float when the central (white) light has been on?
14. Where does the leaf disk get carbon dioxide? Where do plants usually get carbon dioxide? What process is used?
15. Where does the leaf disk get water? Where do plants usually get water? What process is used?
16. Why do plant leaves appear to be green in color?
17. Based on the class data, which colors of light are most used by plants during photosynthesis?
18. Based on the class data, does photosynthesis produce oxygen at the same rate that respiration uses oxygen? How can you tell?

Free Response (10 points)

Describe the process of the light dependent reactions in photosynthesis. Be sure to include the following terms: chloroplast, photosystems, electron, thylakoid, chlorophyll, photon, electron transport chain, NADP, NADPH, ADP, ATP, H₂O, H⁺

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Rosina Ehmann



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