

Photosynthesis and Cellular Respiration Quiz PDF

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What is the main pigment involved in capturing light energy for photosynthesis?
Carotene
○ Chlorophyll
○ Xanthophyll
○ Anthocyanin
Which organelle is primarily responsible for photosynthesis in plant cells?
○ Mitochondria
○ Ribosome
○ Chloroplast
○ Nucleus
Describe the relationship between photosynthesis and cellular respiration in the carbon cycle.

What happens during glycolysis, and why is it important for cellular respiration?



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How does the structure of the mitochondria facilitate its role in cellular respiration?	
Discuss the significance of the electron transport chain in energy production.	
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How do photosynthesis and cellular respiration complement each other in maintaining ecological	
balance?	
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	/
What are the products of cellular respiration? (Select all that apply)	
☐ Oxygen	

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Water
☐ Carbon dioxide
☐ ATP
In which part of the chloroplast do the light-dependent reactions occur?
○ Stroma
○ Thylakoid membranes
Outer membrane
○ Inner membrane
Which of the following are reactants in the process of photosynthesis? (Select all that apply)
Oxygen
Carbon dioxide
Water
Glucose
During which stage of cellular respiration is the majority of ATP produced?
○ Glycolysis
○ Krebs Cycle
○ Electron Transport Chain
○ Fermentation
What is the primary purpose of cellular respiration?
○ To produce glucose
To convert light energy into chemical energy
○ To produce ATP
○ To release oxygen
Which processes occur in the mitochondria? (Select all that apply)
☐ Glycolysis
☐ Krebs Cycle
Light-dependent reactions
☐ Electron Transport Chain
Which stages are part of cellular respiration? (Select all that apply)

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Glycolysis
Calvin Cycle
Krebs Cycle
Electron Transport Chain
Explain the role of chlorophyll in photosynthesis.
Which of the following are involved in the light-dependent reactions of photosynthesis? (Select all that apply)
ATP production
Oxygen release
Glucose synthesis
NADPH formation
Which gas is a byproduct of photosynthesis?
Nitrogen
Oxygen
○ Methane
Carbon dioxide
Which of the following is a product of photosynthesis?
◯ Carbon dioxide
○ Water
Glucose
Nitrogen
Which of the following are true about the Calvin Cycle? (Select all that apply)
It occurs in the stroma
☐ It produces glucose

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It requires light
It uses ATP and NADPH
Which molecule is the final electron acceptor in the electron transport chain during aerobic espiration?
Carbon dioxide
) Water
Oxygen
Glucose