

## **Photosynthesis Practice Quiz PDF**

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Which gas is a byproduct of photosynthesis?
○ Nitrogen
○ Oxygen
○ Carbon dioxide
○ Methane
Which of the following are reactants in the photosynthesis equation? (Select all that apply)
Oxygen
☐ Water
Carbon dioxide
Glucose
Which of the following is NOT a factor affecting the rate of photosynthesis?
○ Light intensity
○ Soil type
Carbon dioxide concentration
○ Temperature
Which organisms can perform photosynthesis? (Select all that apply)
☐ Plants
☐ Fungi
Algae
☐ Cyanobacteria
Which of the following are products of the light-dependent reactions? (Select all that apply)
NADPH

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☐ Oxygen ☐ Glucose
What molecule is split to release oxygen during photosynthesis?
<ul><li>○ Carbon dioxide</li><li>○ Glucose</li><li>○ Water</li><li>○ ATP</li></ul>
Which part of the chloroplast is involved in the light-dependent reactions?
<ul><li>○ Stroma</li><li>○ Grana</li><li>○ Thylakoid membrane</li><li>○ Outer membrane</li></ul>
What is the significance of the Calvin cycle in the overall process of photosynthesis?
<ul> <li>It produces oxygen</li> <li>It converts light energy into chemical energy</li> <li>It synthesizes glucose from carbon dioxide</li> <li>It stores energy as ATP</li> </ul>
What are the roles of chlorophyll in photosynthesis? (Select all that apply)
<ul> <li>□ Absorbing light energy</li> <li>□ Converting glucose to ATP</li> <li>□ Reflects green light</li> <li>□ Transferring electrons</li> </ul>
Discuss the ecological importance of photosynthesis in maintaining life on Earth.
<ul> <li>Photosynthesis is not important for life</li> <li>Photosynthesis only benefits plants</li> <li>Photosynthesis is crucial for oxygen production and food chains</li> <li>Photosynthesis only occurs in land plants</li> </ul>

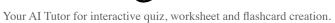
What is the main product of the Calvin cycle?



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<ul><li>△ ATP</li><li>→ Glucose</li><li>→ NADPH</li></ul>
Which factors can limit the rate of photosynthesis? (Select all that apply)
<ul><li>□ Light intensity</li><li>□ Oxygen concentration</li><li>□ Temperature</li><li>□ Water availability</li></ul>
Explain the role of water in the light-dependent reactions of photosynthesis.
<ul> <li>Water is used to produce glucose</li> <li>Water provides electrons for chlorophyll</li> <li>Water absorbs light energy</li> <li>Water is a waste product</li> </ul>
Describe how light intensity affects the rate of photosynthesis.
<ul> <li>Light intensity has no effect</li> <li>Higher light intensity always increases photosynthesis</li> <li>Light intensity affects photosynthesis until a certain point</li> </ul>
Light intensity only affects respiration
Using the control of
What is the primary purpose of photosynthesis?  To produce oxygen To convert light energy into chemical energy To absorb carbon dioxide

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How does temperature influence the efficiency of photosynthesis?
<ul> <li>Temperature has no effect on photosynthesis</li> <li>Higher temperatures always increase photosynthesis</li> <li>Temperature affects enzyme activity and photosynthesis rate</li> <li>Temperature only affects respiration</li> </ul>
Which processes occur during the Calvin cycle? (Select all that apply)
Carbon fixation
ATP synthesis
☐ Glucose production
□ NADPH oxidation
Where in the plant cell does the Calvin cycle take place?  Thylakoid membrane Cytoplasm Stroma Nucleus
Which pigment is primarily responsible for absorbing light in photosynthesis?
○ Carotenoids
○ Xanthophyll
○ Chlorophyll
○ Anthocyanin