

Photosynthesis Exit Quiz – Student Edition

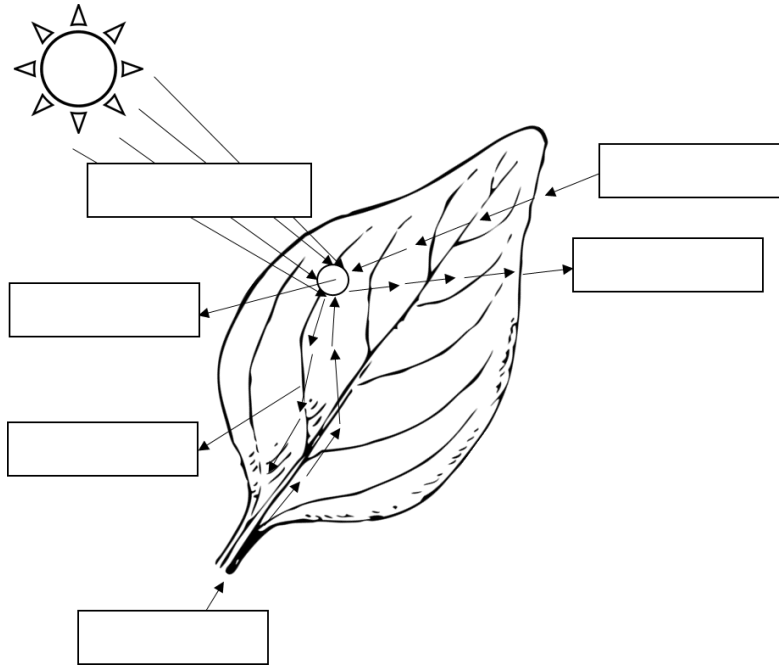
A. Multiple Choice: Circle the **letter** of the correct answer.

- Which statement best describes photosynthesis?
 - This is a food-making process that is common among consumers or heterotrophs.
 - Glucose is broken down into simpler substances to release the energy stored in it.
 - Ethanol, carbon dioxide, and energy are the main products of this chemical reaction.
 - This process converts light energy to chemical energy which is stored in simple sugars.
- Which gas is needed by plants for photosynthesis to successfully happen?
 - carbon dioxide
 - methane
 - nitrogen
 - oxygen
- Which gas is a byproduct of photosynthesis?
 - carbon dioxide
 - methane
 - nitrogen
 - oxygen
- In which part of the plant cell does photosynthesis mainly take place?
 - cell wall
 - chloroplasts
 - lysosome
 - mitochondria
- Which one of the following word equations best describes the process of photosynthesis?
 - $CO_2 + H_2O \xrightarrow{\text{light}} C_6H_{12}O_6 + O_2$
 - $C_6H_{12}O_6 + O_2 \rightarrow CO_2 + H_2O$
 - $CO_2 + O_2 \xrightarrow{\text{light}} C_6H_{12}O_6 + H_2O$
 - $C_6H_{12}O_6 + CO_2 \rightarrow + H_2O + O_2$

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B. Choose from the word bank below to label the diagram below to illustrate photosynthesis. Then, answer the questions that follow.

carbon dioxide	chlorophyll	glucose	light	oxygen	water
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1. List the reactants and products in photosynthesis.

2. What is the role of chlorophyll in photosynthesis?

3. What happens to light energy during photosynthesis?

4. How is photosynthesis related to cellular respiration?
