

# Photosynthesis & Cellular Respiration

## study guide

Name \_\_\_\_\_

Date: \_\_\_\_\_

**Key Concepts** Fill-in-the-Blank: Use the word bank to fill in the sentences.

**WORD BANK:** aerobic ATP calvin cycle carbon dioxide chloroplast cytoplasm glucose glycolysis mitochondria NADPH oxygen

- Photosynthesis occurs in the \_\_\_\_\_ of plant cells and uses sunlight to convert \_\_\_\_\_ and water into \_\_\_\_\_ and oxygen.
- \_\_\_\_\_ respiration occurs in the \_\_\_\_\_ and breaks down glucose with \_\_\_\_\_ to produce \_\_\_\_\_, which is used as energy for the cell.
- \_\_\_\_\_ is the first stage of cellular respiration, breaking down glucose into pyruvate in the \_\_\_\_\_ of cells.
- The \_\_\_\_\_ is a series of reactions in photosynthesis that converts CO<sub>2</sub> into glucose, while the light-dependent reaction produces oxygen and energy carriers like ATP and \_\_\_\_\_.

**Matching** Match the process on the left with the correct location on the right.

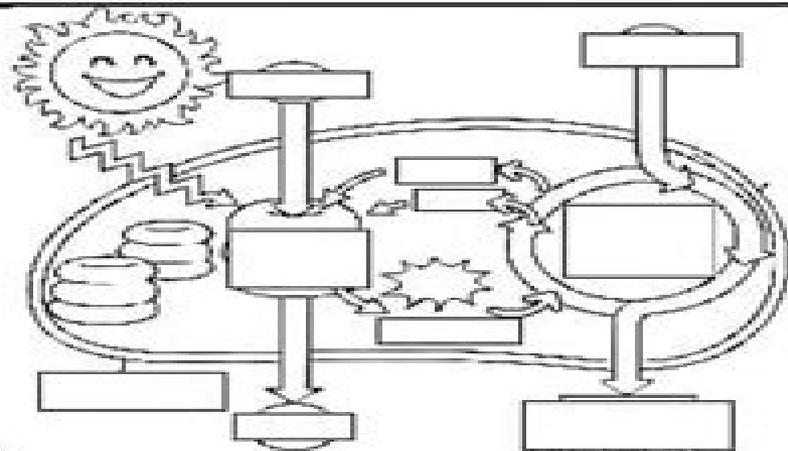
Process	Location
A. Light reactions	_____ Mitochondria (Inner Membrane)
B. Photosynthesis	_____ Thylakoid
C. Glycolysis	_____ Cytoplasm
D. Aerobic Respiration	_____ Mitochondria (Matrix)
E. Calvin Cycle	_____ Stroma
F. Kreb's Cycle	_____ Chloroplast
G. Electron Transport Chain	_____ Mitochondria

### Diagram Labeling

Label the photosynthesis diagram using the provided word bank.

**Word Bank:**

ADP  
 ATP  
 NADP+  
 NADPH  
 Oxygen  
 Carbon Dioxide  
 Water  
 Glucose  
 Chloroplast  
 Calvin Cycle  
 Light Reactions



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