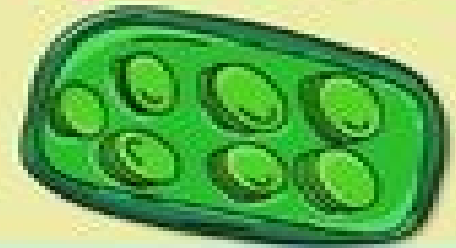


Cellular Respiration & Photosynthesis

STUDY GUIDE



For High School Students

CELLULAR RESPIRATION AND PHOTOSYNTHESIS STUDY GUIDE

SECTION 1: OBTAINING ENERGY

Fill in the blank - use the word bank below to complete questions 1-5 below.
Word Bank: autotrophs, other organisms, food consumers, producers

1. The ultimate source of energy for most life on Earth is the _____.
2. Autotrophs are organisms that can make their own _____.
3. Heterotrophs are organisms that obtain their energy by consuming _____.
4. Energy is transferred through the food chain from the _____ to the _____.
5. Decomposers break down dead organisms and return _____ to the ecosystem.

Matching - match the correct term (left column) with its definition (right column).

- A. Trophic level
- B. Autotroph
- C. Heterotroph
- D. Food chain
- E. Energy pyramid
- F. Decomposer

1. _____ An organism that produces its own food through photosynthesis or chemosynthesis.
2. _____ An organism that obtains its energy by consuming other organisms.
3. _____ A sequence of organisms in which each organism serves as a source of food for the next.
4. _____ A level in the food chain that represents a group of organisms that share the same function in the food chain and the same nutritional relationship to the primary sources of energy.
5. _____ A graphical representation of the relative amounts of energy at each trophic level in a food chain or ecosystem.
6. _____ An organism that breaks down dead organisms and recycles materials and recycles nutrients back into the ecosystem.



SECTION 2: PHOTOSYNTHESIS

Number the following steps of photosynthesis in the order in which they occur.

1. _____ Conversion of light energy to chemical energy in the thylakoid membranes.
2. _____ Formation of ATP and NADPH in the light-dependent reactions.
3. _____ Conversion of carbon dioxide and water into glucose in the Calvin cycle.
4. _____ Release of oxygen gas as a byproduct.
5. _____ _____

SECTION 2: PHOTOSYNTHESIS

Use your understanding of photosynthesis to complete the sentences below.

1. Where in the chloroplast does the light-dependent reaction occur?
2. What are the two main stages of the light-dependent reaction?
3. How does the light-dependent reaction produce ATP and NADPH?
4. What is the electron transport chain, and where does it occur in a chloroplast?
5. What is the role of photosystem II in the light-dependent reaction?
6. How does the electron transport chain generate ATP and NADPH in the light-dependent reaction?
7. What is the role of photosystem I in the light-dependent reaction?

Respiration Biology High School Study Guide

Arshad Iqbal



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