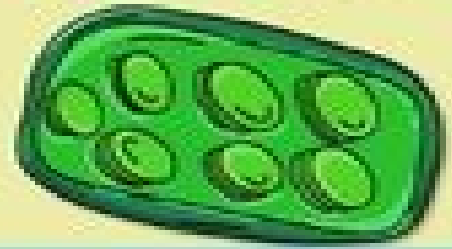


Cellular Respiration & Photosynthesis

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 derive 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 derives 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 waste 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 of the light-dependent reactions
5. _____ _____

SECTION 2: PHOTOSYNTHESIS

1. Where do the light-dependent reactions occur in a plant cell?
2. What are the two main stages of the Calvin cycle and what happens during each stage?
3. How does the Calvin cycle use the energy from ATP and NADPH in the light-dependent reactions?
4. What is the primary product of the Calvin cycle and how is it used in the plant?
5. How does the light-dependent reaction produce ATP and NADPH in the light?
6. How is photosynthesis related to cellular respiration? How do they differ in terms of photosynthesis occurring in a plant's chloroplasts?

Respiration Biology High School Study Guide

CH Cherryholmes



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