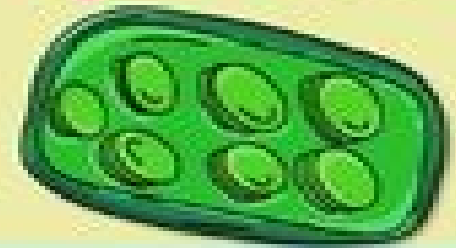


Cellular Respiration & Photosynthesis

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: aut, hetero, 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. Light enters the thylakoid membrane and is absorbed by chlorophyll a and b.
2. Light energy is used to split water molecules into oxygen and hydrogen ions.
3. Electrons from the splitting of water are used to reduce NADP⁺ to NADPH.
4. Light energy is used to pump protons from the stroma into the thylakoid space.
5. The resulting proton gradient is used to drive the synthesis of ATP.
6. The light-dependent reactions produce NADPH and ATP, which are used in the Calvin cycle.
7. The Calvin cycle uses CO₂ and H₂O to produce glucose and O₂.
8. The light-dependent reactions and the Calvin cycle are coupled.

Respiration Biology High School Study Guide

Padhraic Smyth



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Respiration Biology High School Study Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Respiration Biology High School Study Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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