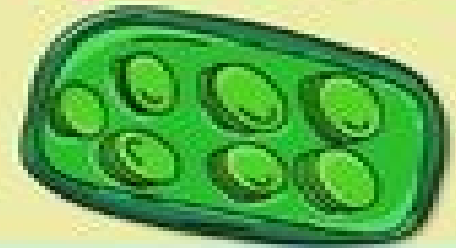


Cellular Respiration & Photosynthesis

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. _____ _____

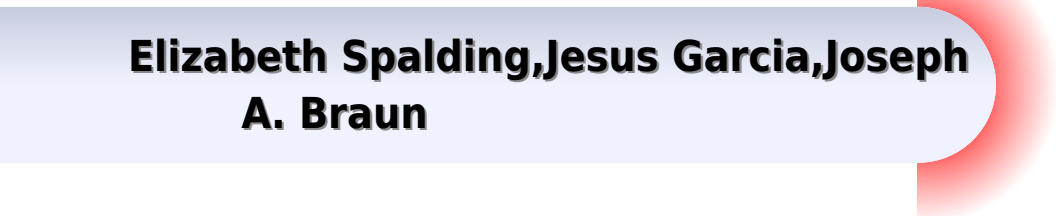
SECTION 2: PHOTOSYNTHESIS

Use your understanding of photosynthesis to complete the sentences below.

1. 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

**Elizabeth Spalding, Jesus Garcia, Joseph
A. Braun**



Respiration Biology High School Study Guide:

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environments foster student engagement and improve outcomes It highlights the shift from one size fits all education to truly individualized learning paths where AI dynamically adjusts content pacing and feedback to each learner s needs Teachers rather than being replaced are empowered with intelligent tools that enhance their instructional strategies The rise of AI in education also brings critical challenges This book does not shy away from discussing ethical concerns data privacy issues and the risks of bias in AI driven education It provides a balanced perspective offering strategies to ensure that GenAI serves all students equitably promoting fairness and inclusivity in the classroom Whether you are an educator researcher policymaker or technology leader Generative AI for Personalized Learning offers valuable insights into the future of education It presents a forward thinking vision ne where AI and human expertise work in harmony to create a more responsive scalable and learner centric educational experience The future of learning is not coming t is already here This book is your essential guide to understanding and navigating this transformation Uncovering Student Ideas in Life Science Page Keeley,2011 Author Page Keeley continues to provide K 12 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroom the formative assessment probe in this first book devoted exclusively to life science in her Uncovering Student Ideas in Science series In this volume Keeley addresses the topics of life and its diversity structure and function life processes and needs of living things ecosystems and change reproduction life cycles and heredity and human biology Using the probes as diagnostic tools that identify and analyze students preconceptions teachers can easily move students from where they are in their current thinking to where they need to be to achieve scientific understanding At the same time use of the probes deepens the teacher s understanding of the subject matter suggests instructional implications and expands assessment literacy Using the student learning data gained through the probes to inform teaching and learning is what makes the probes formative Each probe is supported by extensive Teacher Notes which provide background information on the purpose of the probes related concepts explanations of the life science ideas being taught related ideas in the national science standards research on typical student misconceptions in life science and suggestions for instruction and assessment **Research in Education** ,1973-12

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