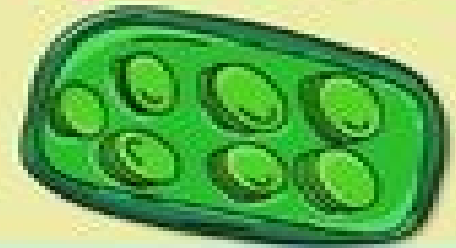


Cellular Respiration & Photosynthesis

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 the two main stages of photosynthesis.

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Pretest

Arshad Iqbal



Photosynthesis And Cellular Respiration Study Guide Pretest:

The Top Books of the Year Photosynthesis And Cellular Respiration Study Guide Pretest The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year.

Photosynthesis And Cellular Respiration Study Guide Pretest : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Photosynthesis And Cellular Respiration Study Guide Pretest : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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