

## **Campbell Biology in focus, 3rd edition Final Study Guide with Guided Question & Answers 2023 APPROVED**

cell respiration equation correct answers  $C_6H_{12}O_6 + 6 O_2 \rightarrow 6 CO_2 + 6 H_2O + ATP$

NAD+ vs NADH correct answers NADH does have electrons (has electrons are with it)  
NAD+ does not have electrons (electron carrier)

Location of glycolysis, formation of acetyl CoA, citric acid cycle, and ETC correct answers Cytosol (glycolysis) and mitochondrial matrix (rest)

Substrate level phosphorylation correct answers When a phosphoryl group is transferred from a substrate to ADP or GDP to form ATP or GTP, coupled with the release of free energy.

Glycolysis end products correct answers two pyruvate (pyruvic acid) molecules, a total of four ATP molecules, and two molecules of NADH.

Formation of acetyl-CoA correct answers oxidative decarboxylation of pyruvate from glycolysis, which occurs in mitochondrial matrix, by oxidation of long-chain fatty acids, or by oxidative degradation of certain amino acids.

Glycolysis = 2 pyruvate (every stage after ward is  $\times 2$ ) correct answers Glucose + 2 NAD+ + 2 ADP + 2 Pi --> 2 Pyruvate + 2 NADH + 2 H+ + 2 ATP + 2 H2O

Citric acid cycle correct answers A series of chemical reactions to release stored energy through the oxidation of acetyl-CoA derived from carbohydrates, fats, and proteins.

Food  $\rightarrow$  NADH  $\rightarrow$  ETC  $\rightarrow$  Oxygen correct answers Aerobic respiration

Role of oxygen in cellular respiration correct answers serves as the final electron acceptor of the electron transport chain facilitating the movement of electrons down the chain hence producing the ATP or adenosine triphosphate.

Proton (H+) gradient in ETC correct answers Used to synthesize ATP

Muscle cells  $\rightarrow$  lactate without oxygen correct answers Lactic acid fermentation without oxygen present

Yeast and alcohol fermentation correct answers Yeast cells convert cereal-derived sugars into ethanol and CO<sub>2</sub>

Allows the production of ATP

Light reaction of photosynthesis (role) correct answers Capture energy from sunlight  
Take place in thylakoid membrane

Make ATP and NADPH that are used to fuel the Calvin Cycle

Green light is reflected (plants look green) correct answers The do not absorb the green light, therefore it is reflected

## Campbell Guided Answers

**SJ Ball**

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Campbell Guided Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "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 masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : 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 captivating 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 mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular 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 engaging 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 gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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