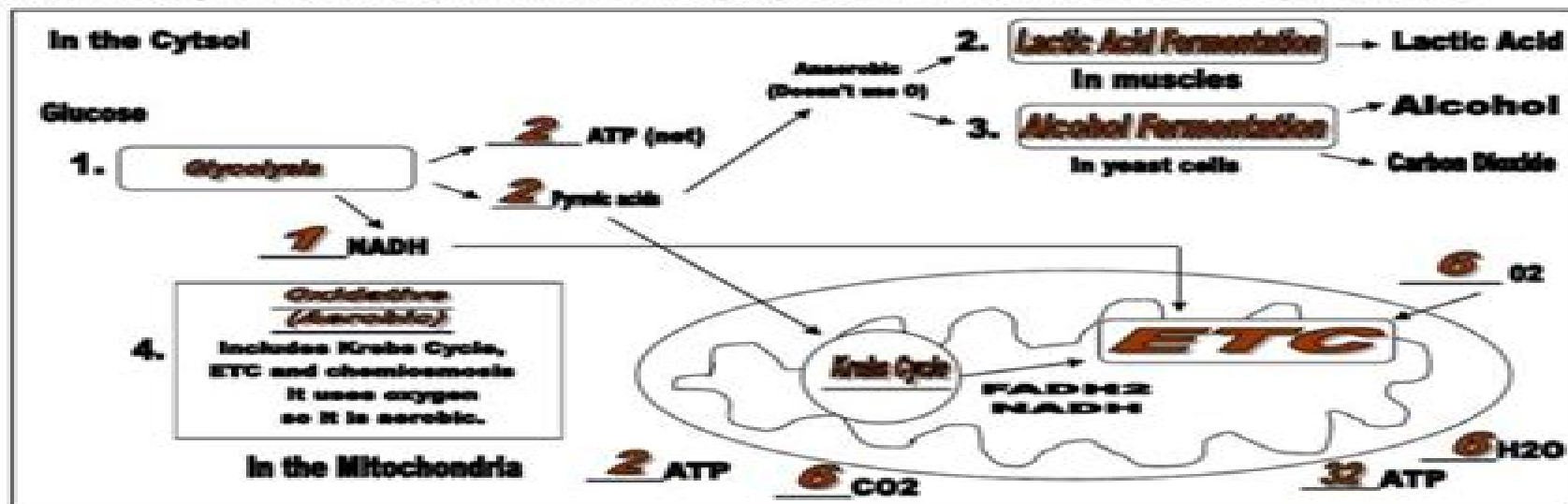


The Working Cell Part II Worksheet

1. Study the diagram below. Label the processes using the following terms:

Oxidative Respiration, Lactic Acid Fermentation, Glycolysis, Alcoholic Fermentation, Krebs cycle and ETC



3. Write the number of ATP molecules produced by each process listed below. Then add up these numbers to get the total number of ATP molecules produced when one glucose molecule is broken down by cellular respiration.
4(2) ATP made in Glycolysis + 2 ATP made in Krebs cycle + 32 ATP made in the Electron Transport Chain
 = 36 ATP total for the breakdown of one glucose molecule during cellular respiration.

4. Aerobic means with the use of oxygen whereas anaerobic means without the use of oxygen.

5. Fill in the data table

Process	Where does it occur	Aerobic or Anaerobic	Reactants	Products
Step 1: Glycolysis	Cytoplasm (Cytosol)	Anaerobic	Glucose + ATP	ATP, NADH & Pyruvic Acid
Step 2 Oxidative Resp: Krebs Cycle	Mitochondria Matrix	Aerobic	Pyruvic Acid + ATP	ATP, NADH, FADH ₂ and Carbon Dioxide
Step 2: Oxidative Resp: ETC	Inner membrane of the Mitochondria	Aerobic	NADH, FADH ₂ , Oxygen	ATP & H ₂ O
Step 2: Alcoholic Fermentation	Cytoplasm (Cytosol)	Anaerobic	C ₆ H ₁₂ O ₆ + 2ATP	Pyruvic Acid + ATP
Step 2: Lactic Acid Fermentation	Cytoplasm	Anaerobic	C ₆ H ₁₂ O ₆ + 2ATP	Pyruvic Acid + ATP
				Lactic Acid, CO ₂

6. Most eukaryotic cells produce about 36 ATP molecules per glucose molecule.

7. What is the process by which glucose is converted into pyruvic acid? Glycolysis

8. At the beginning of oxidative respiration, pyruvic acid reacts with oxygen to form a molecule known as Acetyl CoA.

9. With every turn of the Krebs Cycle, how many ATP Molecules are made? 2, so each glucose produces 2 ATP's in the Krebs Cycle.

Fermentation Study Guide Key

Karin Nielsen-Saines



Fermentation Study Guide Key:

Fermentation Study Guide Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Fermentation Study Guide Key : Colleen Hoover "It Ends with Us" This poignant 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 prevail. Fermentation Study Guide Key : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating 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. Fermentation Study Guide Key : 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 crafts a tale of resilience, survival, and the transformative power of nature, captivating 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 compelling 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 thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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