CELLULAR RESPIRATION

Define cellular respiration (the definition from 3.7.11).

Cell respiration is the controlled release of energy from organic compounds in cells to form ATP.

MULTIPLE CHOICE, Circle ALL that are TRUE. There may be MORE THAN one correct answer.

is the first step in cellular respiration that begins releasing energy stored in glucose.

A. Alcoholic fermentation C. Glycolysis

B. Lactic acid fermentation D. Electron transport chain

The carrier(s) for hydrogen ions and high energy electrons during GLYCOLYSIS are _____

A. ATP C. FADH₂

B. NADH D. NADPH

If oxygen is NOT present, glycolysis is followed by _

A. Krebs cycle

B. electron transport chain

C. fermentation

D. link reaction

Name the 3 carbon molecule produced when glucose is broken in half during glycolysis.

A. pyruvic acid C. Acetyl-CoA

B. lactic acid D. citric acid

Since fermentation does not require exygen it is said to be

A. gerobic 8. gracerobic

How many ATP molecules are added to get glycolysis started? _____2

Since alycelysis produces 4 ATP molecules, this results in a NET GAIN of 2 ATP's

MATCH THE LETTER IN THE DIAGRAM WITH THE LABEL: (You can use them MORE THAN ONCE)



D___ MATRIX

__B__ INTERMEMBRANE SPACE

E___CYTOPLASM

___A___ OUTER MEMBRANE

C____ INNER MEMBRANE (CRISTAE)

E____ Place GLYCOLYSIS happens

D____Place LINK REACTION happens

____C___ Place ETC is located

_____ Place KREBS CYCLE happens

C Place of OXIDATIVE PHOSPHORYLATION

PHOSPHORICATION

Write the complete overall chemical equation for cellular respiration using chemical symbols instead of words:

C6H12O6 + 6O2 -----> 6CO2 + 6H2O + 36 ATP

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- 1. Understanding the eBook Houghton Mifflin Science Cellular Respiration Worksheets
 - The Rise of Digital Reading Houghton Mifflin Science Cellular Respiration Worksheets
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Houghton Mifflin Science Cellular Respiration Worksheets
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Houghton Mifflin Science Cellular Respiration Worksheets
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Houghton Mifflin Science Cellular Respiration Worksheets
 - Personalized Recommendations
 - Houghton Mifflin Science Cellular Respiration Worksheets User Reviews and Ratings
 - Houghton Mifflin Science Cellular Respiration Worksheets and Bestseller Lists
- 5. Accessing Houghton Mifflin Science Cellular Respiration Worksheets Free and Paid eBooks
 - Houghton Mifflin Science Cellular Respiration Worksheets Public Domain eBooks
 - Houghton Mifflin Science Cellular Respiration Worksheets eBook Subscription Services
 - Houghton Mifflin Science Cellular Respiration Worksheets Budget-Friendly Options

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 - o ePub, PDF, MOBI, and More
 - Houghton Mifflin Science Cellular Respiration Worksheets Compatibility with Devices
 - Houghton Mifflin Science Cellular Respiration Worksheets Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Houghton Mifflin Science Cellular Respiration Worksheets
 - Highlighting and Note-Taking Houghton Mifflin Science Cellular Respiration Worksheets
 - Interactive Elements Houghton Mifflin Science Cellular Respiration Worksheets
- 8. Staying Engaged with Houghton Mifflin Science Cellular Respiration Worksheets
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Houghton Mifflin Science Cellular Respiration Worksheets
- 9. Balancing eBooks and Physical Books Houghton Mifflin Science Cellular Respiration Worksheets
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Houghton Mifflin Science Cellular Respiration Worksheets
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Houghton Mifflin Science Cellular Respiration Worksheets
 - Setting Reading Goals Houghton Mifflin Science Cellular Respiration Worksheets
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Houghton Mifflin Science Cellular Respiration Worksheets
 - Fact-Checking eBook Content of Houghton Mifflin Science Cellular Respiration Worksheets
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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