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CHAPTER 9 CELLULAR RESPIRATION

CHEMICAL PATHWAYS ANSWER KEY

PDF - Search results, the molecule that drives most cellular work. H^+ Respiration has three key pathways: glycolysis, the citric acid cycle, and oxidative phosphorylation.

Concept 9.1 Catabolic pathways yield energy by oxidizing organic fuels H^+ The arrangement of atoms of organic molecules represents potential energy., Chapter 9

Cellular Respiration Electrons carried in NADH Mitochondrion Glucose Glycolysis Pyruvic acid Krebs Cycle Electrons carried in NADH and FADH₂ Electron ..., Chapter 9:

CELLULAR RESPIRATION & FERMENTATION 3. The Citric Acid Cycle 2. Glycolysis 4. Oxidative Phosphorylation 1. Overview of Respiration 5. Fermentation, The stages of cellular respiration: a preview.

H^+ Respiration occurs in three metabolic stages: glycolysis, the citric acid cycle, and the electron transport chain and oxidative phosphorylation. o Biochemists usually reserve the term . cellular respiration. for stages 2 and 3., Glucose Glycolysis

Cytoplasm ATP Electrons carried in NADH

Mitochondrion Electrons carried in NADH and FADH₂ Pyruvic acid Krebs Cycle Electron Transport Chain ATP ATP

Name_____ Class_____ Date_____, Mr.

Hoyle Biology Lecture Notes Ch. 9: Cellular Respiration 9.1 Chemical Pathways A. Food

is the energy source for cells The energy in food is measured in calories, 5. The equation that summarizes cellular respiration, using

chemical formulas, is $6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Energy}$. 6. If cellular

respiration took place in just one step, most of the ENERGY would be lost in the form of light and HEAT. 7. Cellular respiration begins

with a pathway called GLYCOLYSIS, which takes place in the THYLAKOID of the cell. 8.,

AP Biology Reading Guide Julia Keller 12d Fred and Theresa Holtzclaw Chapter 9:

Cellular Respiration and Fermentation 1.

Explain the difference between fermentation and cellular respiration.

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