

### **chapter 9 cellular respiration pdf**

What would be the problem if cellular respiration took place in just one step? All the energy from glucose would be released at once, and most of it would be lost in

### **Chapter 9 Cellular Respiration, TE - Scarsdale Middle School**

the molecule that drives most cellular work. • Respiration has three key pathways: glycolysis, the citric acid cycle, and oxidative phosphorylation. Concept 9.1 Catabolic pathways yield energy by oxidizing organic fuels • The arrangement of atoms of organic molecules represents potential energy.

### **CHAPTER 9 CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY**

The stages of cellular respiration: a preview. • Respiration occurs in three metabolic stages: glycolysis, the citric acid cycle, and the electron transport chain and oxidative phosphorylation. • Biochemists usually reserve the term . cellular respiration. for stages 2 and 3.

### **Chapter 9 Cellular Respiration and Fermentation**

Chapter 9: Cellular Respiration: Harvesting Chemical Energy . Overview: Before getting involved with the details of cellular respiration and photosynthesis, take a second to look at the big picture. Photosynthesis and cellular respiration are key ecological concepts involved with energy flow. Use Figure 9.2 to label the missing parts below.

### **Chapter 9: Cellular Respiration: Harvesting Chemical Energy**

Chapter 9: CELLULAR RESPIRATION & FERMENTATION 3. The Citric Acid Cycle 2. Glycolysis 4. Oxidative Phosphorylation ... Summary of Cellular Respiration. Proteins Carbohydrates Fatty acids Amino Sugars Fats Glycerol Glycolysis Glucose Glyceraldehyde 3- P NH 3 Pyruvate Acetyl CoA ... Key Terms for Chapter 9

### **Chapter 9: CELLULAR RESPIRATION & FERMENTATION**

5. The equation that summarizes cellular respiration, using chemical formulas, is  $6O_2 + C_6H_{12}O_6 \rightarrow 6CO_2 + 6H_2O + \text{Energy}$ . 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.

### **Chapter 9: Cellular Respiration and Fermentation**

Campbell's Biology, 9e (Reece et al.) Chapter 9 Cellular Respiration and Fermentation This is one of the most challenging chapters for students to master. Many students become overwhelmed and confused by the complexity of the pathways, with the multitude of intermediate compounds, enzymes, and processes.

### **Campbell's Biology, 9e (Reece et al.) Chapter 9 Cellular**

Section Review 9-1 1. cellular respiration 2. glucose 3. NADH 4. two 5. alcohol, CO<sub>2</sub>, NAD 6. The process of fermentation does not require oxygen. 7. Fermentation continues to produce NAD without oxygen. This process allows glycolysis to

### **Ch. 9 Answer Key - freshbiology.weebly.com**

Chapter 7 • Cellular Respiration Mitochondria structure Similar in arrangement to the chloroplast 1. It is a double membrane organelle 2. The intermembrane space is bounded by the outer membrane & the inner membrane 3. The inner membrane encloses a central space called the matrix. The transition reaction & Krebs cycle occur within matrix 4. The inner membrane is folded into cristae.

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