

## Chapter 9 Cellular Respiration Chemical Pathways Answer Key

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### CHAPTER 9 CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY

Chapter 9, Cellular Respiration (continued)

High-energy electrons from NADH and FADH<sub>2</sub> are passed into and along the electron transport chain. The energy from the electrons moving down the chain is used to move H<sup>+</sup> ions across the inner membrane. H<sup>+</sup> ions build up in the space, making it positively charged and making the matrix negatively charged.

Chapter 9: Cellular Respiration and Fermentation 1. Explain the difference between fermentation and cellular respiration. Fermentation is a partial degradation of sugars or other organic fuel that occurs without the use of oxygen, while cellular

Chapter 9: Cellular Respiration and Fermentation

Chapter 9 Cellular Respiration: Harvesting Chemical Energy Multiple-Choice Questions 1) What is the term for metabolic pathways that release stored energy by breaking down complex molecules? A) anabolic pathways B) catabolic pathways C) fermentation pathways D) thermodynamic pathways E) bioenergetic pathways Answer: B

Chapter 9: Cellular Respiration: Harvesting Chemical ...

In cellular respiration, electrons are not transferred directly from glucose to oxygen. Each electron is coupled with a proton to form a hydrogen atom. Following the movement of hydrogens allows you to follow the flow of electrons. They hydrogens are held in the cell temporarily by what electron carrier?

Chapter 9 - Cellular Respiration: Harvesting Chemical ...

9.1 Cellular Respiration: An Overview Chemical Energy and Food Chemical energy is stored in food molecules. Energy is released when chemical bonds in food molecules are broken. Energy is measured

in a unit called a calorie, the amount of energy needed to raise the temperature of 1 gram of water 1 degree Celsius.

Chapter 9 Cellular Respiration, TE

Chapter 9 Cellular Respiration Section 9 – 1 Chemical Pathways(pages 221 – 225) This section explains what cellular respiration is. It also describes what happens during glycolysis and describes two types of fermentation. Chemical Energy and Food(page 221) 1. What is a calorie?It is the amount of energy needed to raise the temperature of 1 gram of water

Chapter 9 Cellular Respiration: Harvesting Chemical Energy ...

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Concept 9.2 Glycolysis harvests chemical energy by oxidizing glucose to pyruvate. During glycolysis, glucose, a six carbon-sugar, is split into two three-carbon sugars. These smaller sugars are oxidized and rearranged to form two molecules of pyruvate, the ionized form of pyruvic acid.

Chapter 9: Cellular Respiration:

Harvesting Chemical Energy

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### CHAPTER 9 CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY

Chapter 9: Cellular Respiration: Revised Review . 1) What is the term used for the metabolic pathway in which glucose (C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>) is degraded to carbon dioxide (CO<sub>2</sub>) and water? 2) Which of the following statements is (are) correct about an oxidation-reduction (or redox) reaction? 3) Which of the following statements describes the results of this reaction?

Chapter 9: Cellular Respiration - Biology Junction ...

BIOLOGY I. Chapter 9 – Cellular Respiration: Harvesting Chemical Energy Review of Carbohydrates Organic compounds composed of carbon, hydrogen, and oxygen in the approximate ratio of 1:2:1, (CH<sub>2</sub>O)<sub>n</sub>. Perform several major functions in living things, including energy storage and structural function (building material).

Chapter 09 - Cellular Respiration:

Harvesting Chemical ...

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Chapter 9: Cellular Respiration: Harvesting Chemical Energy

Chapter 9 Cellular Respiration Chemical Chapter 9: Cellular Respiration and Fermentation

Chapter 9 Cellular Respiration: Harvesting Chemical Energy . Lecture Outline . Overview: Life Is Work • To perform their many tasks, living cells require energy from outside sources. • Energy enters most ecosystems as sunlight and leaves as heat. • In contrast, the chemical elements essential for life are recycled.

Chapter 9 Cellular Respiration Chemical

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

Concept 9.2 Glycolysis harvests chemical energy by oxidizing glucose to pyruvate. During glycolysis, glucose, a six-carbon sugar, is split into two three-carbon sugars and rearranged to form two molecules of pyruvate, the ionized form of pyruvic acid. Chapter 9: CELLULAR RESPIRATION: Harvesting Chemical Energy Chapter 9 Cellular Respiration: Harvesting Chemical Energy Lecture Outline Overview: Life Is Work • To perform their many tasks, living cells require energy from outside sources.

• Energy enters most ecosystems as sunlight and leaves as heat. • Photosynthesis generates oxygen and organic molecules that the mitochondria of eukaryotes

Chapter 9: Cellular Respiration (Harvesting Chemical ...

4. Cells use the energy stored in chemical bonds of foods to produce compounds that directly power the cell's activities, such as ATP. Overview of Cellular Respiration. For Questions 5 – 10, complete each statement by writing the correct word or words.

Chapter 9 : cellular respiration and fermentation

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Chapter 9 : cellular respiration and fermentation ... Figure 9.2 Energy flow and chemical recycling in ecosystems. Explanation of figure 9.2 • The energy stored in the organic molecules of food ultimately comes from the sun. • Energy flows into an ecosystem as sunlight and leaves as heat ; in contrast , the ...

#### Section 9 – 1 Chemical Pathways

Chapter 9~ Cellular Respiration:

Harvesting Chemical Energy \* Oxidation refers to the loss of electrons to any electron acceptor, not just to oxygen. Uses exergonic flow of electrons through ETC to pump  $H^+$  across membrane.