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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 Section 9-1 Chemical Pathways(pages 221-225) This section explains what cellular respiration is. It also describes what happens during a process called glycolysis and describes two types of a process called fermentation. Chemical Energy and Food(page 221) 1. High School Life Science Standard (Grades 9-12) HS-LS1-7 Use a model of the major inputs and outputs of cellular respiration (aerobic and anaerobic) to exemplify the chemical process in which the bonds of food molecules are broken, the bonds of new compounds are formed, and a net transfer of energy results.

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(eText Concept 9.1) oxygen gas contains a double bond oxygen acts as the final electron acceptor in cellular respiration the oxygen atom is very electronegative oxygen is so abundant in the atmosphere oxygen gas is composed of two atoms of oxygen

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Chapter 9 Cellular Respiration: Harvesting Chemical Energy Lecture Outline Overview · 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 use as fuel for cellular respiration.

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BIOLOGY I. Chapter 9 - Cellular Respiration: Harvesting Chemical Energy Catabolic Pathways and Production of ATP Evelyn I. Milian - Instructor 13 Aerobic cellular respiration is the most prevalent and efficient catabolic pathway for production of ATP, in which oxygen is consumed as a reactant along with the organic fuel, and carbon

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