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Cellular respiration takes place in two stages: 12. In cellular respiration, a two-carbon molecule combines with a four-carbon molecule to form citric acid as part of 13.

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Cellular Respiration Overview: $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy (heat and ATP)}$ Controlled release of energy from organic molecules (most often glucose) Glucose is oxidized (loses e⁻) & oxygen is reduced (gains e⁻) The carbon atoms of glucose (C₆H₁₂O₆) are released as CO₂; Generates ATP (adenosine triphosphate)

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Chapter 7 Study Guide Cellular Respiration. 1. Most eukaryotic cells produce only about ____ ATP Molecules per Glucose Molecule. 2. What is the process by which glucose is converted to pyruvic acid? 3.

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39. Energetic electrons that provide the energy for the production of most of a cell's ATP are carried to the electron transport chain by ____ and ____ 40. ____ is a biochemical pathway of cellular respiration that is anaerobic. 41.

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Photosynthesis & Cellular Respiration Study Guide * Name 3 life processes that require energy. * What is the ultimate source of energy on earth? * The process of plants capturing sunlight & making complex molecules is called? * Where in chloroplasts are grana found? * What are biochemical pathways? * Name 3 things that ☐ Continue reading "Photosynthesis Cellular and Respiration Study Guide"

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Cellular respiration is the process through which cells convert fuel into energy and nutrients. To create ATP and other forms of energy that they can use to power their life functions, cells require fuel and an electron acceptor which drives the chemical process of turning energy from that fuel into a useable form.

Cellular Respiration - Biology Dictionary

Cellular respiration, the process by which organisms combine oxygen with foodstuff molecules, diverting the chemical energy in these substances into life-sustaining activities and discarding, as waste products, carbon dioxide and water. Organisms that do not depend on oxygen degrade foodstuffs in a process called fermentation.

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The Mystery of the Seven Deaths: A Case Study in Cellular Respiration Part I ☐ The Symptoms 1. Are there any similarities or connections between these seven individuals? What questions would you want to ask the families to answer these questions? Yes, there are similarities between these seven.

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