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Fermentation. Fermentation is an anaerobic process in which energy can be released from glucose even though oxygen is not available. Fermentation occurs in yeast cells, and a form of fermentation takes place in bacteria and in the muscle cells of animals. In yeast cells (the yeast used for baking bread and producing alcoholic beverages), glucose can be metabolized through cellular respiration as in other cells.

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Glucose \rightarrow 2 lactic acid + 2 ATP (lactic acid fermentation)

Glucose \rightarrow 2 alcohol + 2 CO₂ + 2 ATP (alcoholic fermentation)

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Study Guide. Chapter 9: Cellular Respiration. What is the difference between fermentation and cellular respiration?

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Cellular respiration is a catabolic process. What does that mean? What organelle is required for cellular respiration to occur? What is the currency for energy for all life on Earth? What does ATP stand for? ADP stand for?

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cellular organisms. d. no organisms. Modern Biology Study Guide 35. Name Class Date
SHORT ANSWER Answer the questions in the space provided.
1. Why are the fermentation pathways referred to as “anaerobic” pathways?
2. What are the energy-containing products of glycolysis?
3.

SECTION 7-1 REVIEW GLYCOLYSIS AND FERMENTATION Pages 1 - 4 ...

fermentation . anaerobic respiration . alcoholic fermentation . ethyl alcohol(=ethanol) lactic acid fermentation . lactic acid

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WORD ROOTS. aero - = air (aerobic: chemical reaction using oxygen) an - = not (anaerobic: chemical reaction not using oxygen) chemi -

STUDY GUIDE: GLYCOLYSIS, FERMENTATION AND ANAEROBIC ...

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Homework 4.6: Fermentation Alcoholic Fermentation MAIN IDEA:
Fermentation and its products are important in several ways. 7.
In the space below, draw the process of alcoholic fermentation and label it with the statements listed. a.

Homework 4.6: FERMENTATION

Fermentation refers to the metabolic process by which organic molecules (normally glucose) are converted into acids, gases, or alcohol in the absence of oxygen or any electron transport chain.

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Fermentation - Biology Dictionary

Lactic-acid fermentation is when an enzyme converts pyruvic acid into another 3-C compound. Alcoholic fermentation. Alcoholic fermentation is the process that converts pyruvic acid into ethyl alcohol and carbon dioxide. Glycolysis takes place... A....in the cytosol.

Biology Chapter 7: Section 7-1 Review: Glycolysis and ...

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Lactic Acid Fermentation produces lactic acid as a byproduct. The only way to get rid of the lactic acid is in a chemical pathway that requires extra oxygen The runner needs more energy for a longer race. How does the body generate the necessary ATP?

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Biology Unit 4: Metabolism – Photosynthesis & Cellular Respiration Essential Skills 5-1. Be able to name the reactants and products of Aerobic Cellular Respiration. 5-2. Be able to name the reactants and products of Photosynthesis. 5-3. Explain how the reactants and products of photosynthesis and respiration relate to each other. Study Guide

Biology Unit 4: Metabolism Photosynthesis & Cellular ...

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BIOLOGY: Study Guide CA5: CELLULAR RESPIRATION 1. Define: glycolysis ATP Chemiosmosis NAD^+ / NADH FAD^+ / FADH_2 glyceraldehyde-3-phosphate pyruvate lactic acid fermentation alcoholic fermentation "arrow in" and "arrow out" heterotroph Krebs Cycle Oxidation of Pyruvate

BIOLOGY: Study Guide CA5: CELLULAR RESPIRATION

Fermentation is a type of metabolism that occurs in animals, bacteria, yeast and many microorganisms. Respiration is a more recently evolved metabolic process that is found in many higher organisms...

What are 5 facts about fermentation and 5 ... - study.com

Fermentation is a biological process that extracts energy out of molecules like carbohydrates anaerobically. The final product of this process includes ethanol, a two-carbon alcohol. It is the main...

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