Biology aerobic respiration answers

What is an aerobic respiration question and answer? Aerobic Respiration: It is the process of cellular respiration that takes place in the presence of oxygen gas to produce energy from food. This type of respiration is common in most of the plants and animals, birds, humans, and other mammals. In this process, water and carbon dioxide are produced as end products.

What is respiration question answers? The transfer of oxygen from the outside environment to cells within tissues, as well as the removal of carbon dioxide in the opposite way, is referred to as respiration. It is a biological reaction that takes place within the cells of living organisms.

What is aerobic respiration in biology? Listen to pronunciation. (ayr-OH-bik RES-pih-RAY-shun) A chemical process in which oxygen is used to make energy from carbohydrates (sugars). Also called aerobic metabolism, cell respiration, and oxidative metabolism.

What is energy from aerobic respiration used for? This energy is used: to drive the chemical reactions needed to keep organisms alive – the reactions to build complex carbohydrates. Carbohydrates are vital for energy in humans and are stored as fat if eaten in excess.

What is the anaerobic respiration answer? Anaerobic respiration is the respiration which occurs in the absence of oxygen to produce the energy. It occurs in yeast cells in which alcohol is produced. It also occurs in muscles of our body when we do excess workout which causes the temporary lack of the oxygen for muscles.

What are examples of aerobic respiration? For example -Human ,dogs ,cats and all the animals and birds ,insects ,grasshopper etc many more and most of the plants

carry out aerobic respiration by using oxygen of air. All the organisms which obtain energy by using aerobic respiration cannot live without the oxygen .

What is respiration _____ *? Respiration is a metabolic process that occurs in all organisms. It is a biochemical process that occurs within the cells of organisms. In this process, the energy (ATP-Adenosine triphosphate) is produced by the breakdown of glucose which is further used by cells to perform various functions.

What is respiration in biology easy? Respiration is the biochemical process in which the cells of an organism obtain energy by combining oxygen and glucose, resulting in the release of carbon dioxide, water, and ATP (the currency of energy in cells).

What is cellular respiration answers? Cellular respiration is a series of chemical reactions that break down glucose to produce ATP, which may be used as energy to power many reactions throughout the body.

Which type of respiration is the fastest? Aerobic respiration produces much more ATP than anaerobic respiration. Anaerobic respiration occurs more quickly than aerobic respiration.

What are the main steps in aerobic respiration?

Does photosynthesis release energy? Through photosynthesis, certain organisms convert solar energy (sunlight) into chemical energy, which is then used to build carbohydrate molecules. The energy used to hold these molecules together is released when an organism breaks down food. Cells then use this energy to perform work, such as cellular respiration.

What are the 4 stages of aerobic respiration? Aerobic respiration is a series of enzyme-controlled reactions that release the energy stored up in carbohydrates and lipids during photosynthesis and make it available to living organisms. There are four stages: glycolysis, the link reaction, the Krebs cycle and oxidative phosphorylation.

Do all living things need glucose? Glucose is a sugar that plays a vital role in the metabolism of most living organisms. It is manufactured by plants and certain bacteria and protists during photosynthesis. Glucose is the main source of chemical energy for cell functions in organisms from bacteria and plants to humans.

What are the two types of respiration? Respiration releases energy stored in glucose and without it these cells would die. There are two types of respiration: Aerobic respiration occurs in the presence of oxygen and in most cells most of the time. Anaerobic respiration occurs without oxygen and much less frequently than aerobic respiration.

Can energy be released without oxygen? Answer: yes, energy can be release without oxygen by anaerobic respiration but the energy would not be enough.

Why do your muscles recover after 10 minutes? After 10 minutes of rest, your muscles would likely recover enough to operate at the original efficiency. This is because the body has time to replenish the ATP stores through aerobic respiration and remove lactic acid buildup.

How does aerobic respiration work? Aerobic respiration breaks down glucose and combines the broken down products with oxygen, making water and carbon dioxide. The carbon dioxide is a waste product of aerobic respiration because cells do not need it.

What zone is anaerobic heart rate? Zone 5: Short, intense bursts of activity (anaerobic) This zone is approximately 90-100 percent of a person's maximum heart rate.

Where does respiration take place? While most aerobic respiration (with oxygen) takes place in the cell's mitochondria, and anaerobic respiration (without oxygen) takes place within the cell's cytoplasm. (adenosine triphosphate) chemical found in most living cells and used for energy.

What is the aerobic respiration formula? Aerobic respiration takes place in the mitochondria and requires oxygen and glucose, and produces carbon dioxide, water, and energy. The chemical equation is C6H12O6 + 6O2 ? 6CO2 + 6H2O (glucose + oxygen -> carbon dioxide + water).

What is cellular respiration question and answer? It's the process of breaking down food materials within the cell to produce energy and then trapping that energy for ATP production. The process occurs in the cytoplasm and mitochondria of the cell. It is a catabolic process.

What is the definition of aerobic respiration quizlet? aerobic respiration. the process by which cells use oxygen to obtain usable energy from an energy source. Tap the card to flip ? 1 / 5.

What is the difference between aerobic and anaerobic respiration exam question? (6 marks) Aerobic respiration requires oxygen, anaerobic respiration does not. In aerobic respiration glucose and oxygen react together in cells to produce carbon dioxide and water and energy. In particular this occurs in mitochondria of cells.

What are the main steps of aerobic respiration and where does it take place?

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