

Answers of crossword puzzle photosynthesis and cellular respiration

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What are the answer to photosynthesis and cellular respiration? Both are processes within the cell which make chemical energy available for life. Photosynthesis transforms light energy into chemical energy stored in glucose, and cellular respiration releases the energy from glucose to build ATP, which does the work of life.

What are some questions about photosynthesis and cellular respiration?

What is the relationship between photosynthesis and respiration answer key? Photosynthesis makes glucose which is used in cellular respiration for making ATP. The glucose is then transformed back into carbon dioxide, which is used in photosynthesis. It helps cells to release and store energy. It maintains the atmospheric balance of carbon dioxide and oxygen.

Which reaction photosynthesis or cellular respiration is? Photosynthesis and cellular respiration are complementary metabolic reactions occurring in living things. In cellular respiration, oxygen and glucose give rise to water and carbon dioxide while in photosynthesis, carbon dioxide and water give rise to glucose and oxygen.

What is the equation for cellular respiration and photosynthesis? Connecting Cellular Respiration and Photosynthesis Notice that the equation for cellular respiration is the direct opposite of photosynthesis: Cellular Respiration: $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$. Photosynthesis: $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$.

What is the simple cycle of photosynthesis and cellular respiration?

What are 3 facts about cellular respiration and photosynthesis?

What are the 5 things photosynthesis and cellular respiration related?

What are the basics of photosynthesis and cellular respiration? Photosynthesis takes six carbon dioxide molecules, six water molecules, and sunlight and creates glucose ($C_6H_{12}O_6$). Cellular respiration takes glucose ($C_6H_{12}O_6$), six water molecules, and six oxygen molecules and creates six carbon dioxide molecules, 6 water molecules, and energy in the form of ATP.

What process is found in both photosynthesis and cellular respiration? In both cellular respiration and photosynthesis, chemiosmosis occurs. Chemiosmosis is the process in which the creation of a proton gradient leads to the transport of proton down its concentration gradient to produce ATP.

What are the two things needed for cellular respiration? Cellular respiration is the process by which cells derive energy from glucose. The chemical reaction for cellular respiration involves glucose and oxygen as inputs, and produces carbon dioxide, water, and energy (ATP) as outputs.

What are three products of cellular respiration? The products of cellular respiration are carbon dioxide, ATP, and water. During the production of acetyl-CoA from pyruvate, two carbon dioxide are formed. An additional four carbon dioxide are formed during the Krebs cycle.

Can photosynthesis happen without cellular respiration? Without photosynthesis, there wouldn't be any glucose or oxygen which kick off the respiration reaction. Without respiration, plants would use up all the CO_2 and starve to death. Photosynthesis requires the products from respiration, and respiration requires the products from photosynthesis.

What are 5 differences between photosynthesis and cellular respiration? In photosynthesis, carbon dioxide, water and light energy are the reactants and glucose, oxygen and water are the by-products. In cellular respiration, glucose and oxygen are the reactants and carbon dioxide, water, and energy (ATP) are the by-products.

Is there a relationship that exists between photosynthesis and cellular respiration? The oxygen needed to replace that lost by living things during respiration is produced by photosynthesis. One of the reactants that plants need to carry out photosynthesis is carbon dioxide, which is produced during respiration. There is a beneficial relationship between photosynthesis and cellular respiration.

What three things are needed for photosynthesis? This process is called photosynthesis and is performed by all plants, algae, and even some microorganisms. To perform photosynthesis, plants need three things: carbon dioxide, water, and sunlight.

What are the three steps of cellular respiration? There are three main steps of cellular respiration: glycolysis; the citric acid (TCA) or the Krebs cycle; and the electron transport chain, where oxidative phosphorylation occurs. The TCA cycle and oxidative phosphorylation require oxygen, while glycolysis can occur in anaerobic conditions.

What living things perform cellular respiration? Cellular respiration takes place in nearly all living organisms. Plants, animals, fungi, protists, and even many bacteria carry out cellular respiration.

What is the equation for photosynthesis and cellular respiration? Comparing Equations: Photosynthesis Equation: $\text{H}_2\text{O} + \text{CO}_2 + \text{light} \rightarrow \text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6$
Respiration Equation: $\text{O}_2 + \text{glucose} \rightarrow \text{H}_2\text{O} + \text{CO}_2 + \text{ATP}$ What do you notice about the two?

What is the cycle between photosynthesis and cellular respiration? Photosynthesis converts carbon dioxide and water into oxygen and glucose. Glucose is used as food by the plant and oxygen is a by-product. Cellular respiration converts oxygen and glucose into water and carbon dioxide. Water and carbon dioxide are by-products and ATP is energy that is transformed from the process.

How to teach photosynthesis and cellular respiration? Using ping pong balls and egg cartons, they will simulate the production of sugar molecules to store energy (photosynthesis), and then break apart these molecules to acquire energy (cellular respiration). This active simulation makes it easier to remember both processes!

What is the conclusion of photosynthesis and cellular respiration?

Photosynthesis involves plants using sunlight, water, and carbon dioxide to produce glucose and oxygen. Cellular respiration breaks down glucose to generate energy for cells. The symbiotic relationship between these processes ensures the exchange of gases and energy within the biosphere, sustaining life on Earth.

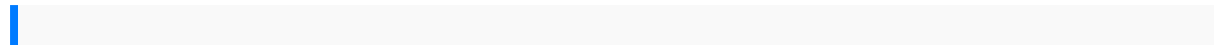
How are photosynthesis and cellular respiration related to each other answer?

The end product of Photosynthesis is glucose that is used in cellular respiration to make ATP. The glucose is then turned back into carbon dioxide, which is used in photosynthesis. While water is broken down to form oxygen during photosynthesis, in cellular respiration oxygen is combined with hydrogen to form water.

What are the 5 things photosynthesis and cellular respiration related?

What is the cell process photosynthesis and cellular respiration?

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