Ap chapter 10 photosynthesis answers

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What is photosynthesis Class 10 answers? Photosynthesis is the conversion of sunlight, carbon dioxide (CO2), and water into food (sugars) and oxygen by plants, algae, and some microorganisms. Light energy is collected and used by green plants during the process to convert water, carbon dioxide, and minerals into oxygen and energy-rich organic molecules.

What is the best answer to photosynthesis? Photosynthesis is the process by which plants use sunlight, water, and carbon dioxide to create oxygen and energy in the form of sugar.

Which process is found in both cellular respiration and in the light reactions of photosynthesis? The electron transport chain is a series of four protein complexes that couple redox reactions, creating an electrochemical gradient that leads to the creation of ATP in a complete system named oxidative phosphorylation. It occurs in mitochondria in both cellular respiration and photosynthesis.

Where do light reactions store chemical energy? To summarize, note that the light reactions store chemical energy in ATP and NADPH, which shuttle the energy to the carbohydrate-producing Calvin cycle. The Calvin cycle is a metabolic pathway in which each step is governed by an enzyme, much like the citric acid cycle in cellular respiration.

Is photosynthesis very short answer? Photosynthesis is the process by which plants and other things make food. It is an endothermic (takes in heat) chemical process that uses sunlight to turn carbon dioxide into sugars that the cell can use as energy. As well as plants, many kinds of algae, protists and bacteria use it to get food.

What is photosynthesis 10th grade? Photosynthesis is a process by which phototrophs convert light energy into chemical energy, which is later used to fuel cellular activities. The chemical energy is stored in the form of sugars, which are created from water and carbon dioxide.

What is photosynthesis your answer?

What is the formula for photosynthesis? The process of photosynthesis is commonly written as: 6CO2 + 6H2O ? C6H12O6 + 6O2. This means that the reactants, six carbon dioxide molecules and six water molecules, are converted by light energy captured by chlorophyll (implied by the arrow) into a sugar molecule and six oxygen molecules, the products.

What is photosynthesis with equation answer? Photosynthesis is the process that plants use to convert light energy into sugar molecules. The equation for photosynthesis is: carbon dioxide + water + sunlight -> oxygen and glucose. 6CO2 + 6H2 O + sunlight -> C6 H12 O6 + 6O2.

What is the process 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. This occurs in the electron transport chain in both mitochondrias and chloroplast.

Which equation best summarizes photosynthesis? Key Points. The chemical equation for photosynthesis is 6CO2+6H2O?C6H12O6+6O2. 6CO2+6H2O?C6H12O6+6O2. In plants, the process of photosynthesis takes place in the mesophyll of the leaves, inside the chloroplasts.

What is the most important role of pigments in photosynthesis? Photosynthetic cells contain special pigments that absorb light energy. Different pigments respond to different wavelengths of visible light. Chlorophyll, the primary pigment used in photosynthesis, reflects green light and absorbs red and blue light most strongly.

What are both ATP and NADPH required for? The ATP and NADPH from the light-dependent reactions are used to make sugars in the next stage of photosynthesis, the Calvin cycle.

Which gas is absorbed into the leaf for photosynthesis? carbon dioxide is used in photosynthesis, where the sun's energy is harnessed to make food. This process releases oxygen as a waste product.

What replaces the electrons excited by sunlight in photosystem I? Answer and Explanation: The electrons excited by sunlight are replaced by electrons from PHOTOSYSTEM II in photosystem I through an electron transport chain connecting them.

What is the name of the pigment that absorbs sunlight? The pigment called Chlorophyll present in Chloroplasts helps in photosynthesis by absorbing sunlight and transforming it into chemical energy.

What are the two products of photosynthesis? The products of photosynthesis are glucose and oxygen. Oxygen passes out of the leaves through the stomata.

What are the steps of the light reaction of photosynthesis? Light-dependent reaction involves four important stages – absorption of light energy, splitting of water molecules, release of oxygen, and formation of energy-carrying molecules – ATP and NADPH.

What is photosynthesis in very short answer? photosynthesis, the process by which green plants and certain other organisms transform light energy into chemical energy. During photosynthesis in green plants, light energy is captured and used to convert water, carbon dioxide, and minerals into oxygen and energy-rich organic compounds.

How do leaves breathe? There are many types of stomata. What do these stomata do? There are like mouths, they open and close and they help the leaves take in the gases and release the gases. And that's how with all those leaves, having all the stomata, the trees can then take in the gases through these mouths and release gases.

What gas is released in photosynthesis? Q. What gas is released during photosynthesis? Answer: During the photosynthetic process, oxygen is released.

What is photosynthesis best answer? Photosynthesis is the process by which green plants prepare their own food from carbon dioxide and water by using sunlight energy in the presence of chlorophyll.

What is photosynthesis for dummies? Plants take in water from the soil and carbon dioxide from the air. Photosynthesis starts when chlorophyll absorbs energy from sunlight. Green plants use this light energy to change water and carbon dioxide into oxygen and nutrients called sugars. The plants use some of the sugars and store the rest.

How does chlorophyll work? Chlorophyll's job in a plant is to absorb light—usually sunlight. The energy absorbed from light is transferred to two kinds of energy-storing molecules. Through photosynthesis, the plant uses the stored energy to convert carbon dioxide (absorbed from the air) and water into glucose, a type of sugar.

What is photosynthesis in simple words? A chemical process that occurs in plants, algae, and some types of bacteria, when they are exposed to sunlight. During photosynthesis, water and carbon dioxide combine to form carbohydrates (sugars) and give off oxygen. Photosynthesis is needed for animal and plant life.

What are the two stages of photosynthesis class 10?

What are the three events of photosynthesis Class 10? The three episodes that occur during the photosynthesis cycle are: Light energy is absorbed by chlorophyll, which breaks down water molecules into oxygen and hydrogen. Light energy is converted into chemical energy. The reduction of carbon dioxide leads to the formation of carbohydrates.

What are the steps of photosynthesis? Photosynthesis is how plants produce food in the presence of water and sunlight. The different phases of photosynthesis are: Absorption of light, Transfer Of electrons, Production Of ATP, and Carbon Fixation.

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What is the 10 importance of photosynthesis? Overall, the glucose created in photosynthesis helps plants respire, make fruit, build cells, create amino acids which are then made into proteins, store energy as starch, and create seeds. These processes are all necessary for life.

What are the 2 main types of photosynthesis?

What are 2 main phases of photosynthesis? Photosynthesis, a process vital for life, involves two main stages: light-dependent reactions and the light-independent reactions (also called the Calvin cycle).

What are the 3 main products of photosynthesis?

What function do stomata serve? Stomata allow a plant to take in carbon dioxide, which is needed for photosynthesis. They also help to reduce water loss by closing when conditions are hot or dry. Stomata look like tiny mouths which open and close as they assist in transpiration.

Which cell type in a leaf performs the most photosynthesis? Mesophyll cells in a leaf are the principal center for photosynthesis.

What are the 3 main steps of photosynthesis Class 10?

What two types of reactions are photosynthesis divided into? The reactions that make up the process of photosynthesis can be divided into light-dependent reactions, which take place in the thylakoids, and light-independent reactions (also known as dark reactions or the Calvin cycle), which take place in the stroma.

What are the steps of photosynthesis in order Quizlet?

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