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web dec 23 2021 answer photosynthesis takes the energy of sunlight and combines water and carbon dioxide to produce sugar and oxygen as a waste product the reactions of respiration take sugar and consume oxygen to break it down into carbon dioxide and water releasing energy thus the reactants of photosynthesis are the products of respiration web 1 what is photosynthesis a process in which sunlight energy is used to make glucose 2 where does photosynthesis occur the site of photosynthesis is in the chloroplast an organelle found in the leaves of green plants 3 what are chloroplasts and where are they found web photosynthesis uses carbon dioxide and produces oxygen plants respire all the time whether it is dark or light they photosynthesize only when they are in the light web lets ions pass through it calvin cycle plants use the energy that atp and stored for along time pigments when a plant exorbs light it turns them into chlorophyll exorbs light photosynthesis plants use sunlight to make there food and the plant hold its waste web why photosynthesis and cellular respiration are important cell energy processes they are connected in ways that are vital for the survival of almost all forms of life on earth in this activity you will look at these two processes at the cellular level and explore their interdependence web 3 because galp is the key molecule produced in photosynthesis on which the synthesis of all the other main molecules needed by the plant depends not only glucose but also polysaccharides such as starch and cellulose amino acids and fatty acids for lipids 4 in a biochemical process that depends on or is affected by a number of factors the web photosynthesis uses energy from atp and high energy electrons from nadph produced in the light reactions to make glucose in the calvin cycle the light dependent reaction produces nadph the purpose of photosynthesis is to produce a photosynthesis is a

process that takes place in plants and photosynthesis occurs in the mitochondria in animals. The entire process is complex and involves many enzymatic reactions. You may notice that the photosynthesis reaction is nearly the exact reverse of cellular respiration from the equation above. The three key elements for photosynthesis to occur are carbon dioxide (CO_2), water (H_2O), and light.

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WebKey Concepts 8.1: Photosynthesis converts light energy to the chemical energy of food. 8.2: The light reactions convert solar energy to the chemical energy of ATP and NADPH. 8.3: The Calvin cycle uses the chemical energy of ATP and NADPH to reduce CO_2 to sugar, the process that feeds the biosphere. Life on Earth is solar-powered.

WebLearn Test Match Quiz created by gfodi614. Terms in this set: 36 plants, algae, some bacteria, which kinds of organisms do photosynthesis to capture light energy from the sun, convert it to chemical energy in a series of reactions which is then stored for later use. What is the overall purpose of photosynthesis? Sun, carbohydrates, oxygen.

WebAP Biology Photosynthesis Chapter 8 Reading Guide Answer Key 1. As a review, define the terms autotroph and heterotroph. Keep in mind that plants have mitochondria and chloroplasts and do both cellular respiration and photosynthesis. Autotrophs are...

WebQuestion in the Gizmo: What are the ideal conditions for photosynthesis? Form Hypothesis during photosynthesis: Light energy is used to synthesize carbon dioxide (CO_2). Chemical reactions are summarized by the following formula: $2\text{H}_2\text{O}$ and CO_2 into glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) and oxygen (O_2).

WebPhotosynthesis is the process in which light energy is converted to chemical energy in the form of sugars in a process driven by light energy. Glucose molecules or other sugars are constructed from water and carbon dioxide, and oxygen is released as a byproduct.

WebMar 31, 2023. What is the process of photosynthesis? Answer: Photosynthesis is the chemical process in which plants and other organisms combine carbon dioxide and water using energy from the sun to produce sugar and oxygen. What is the process of cellular respiration? Answer: WebPhotosynthesis Quiz 1. Which of these are products of the dark reactions? a) ATP, c) O_2 , e) a, b, and c, b) NADPH, d) glyceraldehyde 3-phosphate. 2. Photosynthesis as a whole is endergonic. How does free energy change from photosystem II through the Calvin cycle? a) WebJul 3, 2019. $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$. The reactions of photosynthesis can be categorized as light-dependent reactions and dark reactions. Chlorophyll is a key molecule for photosynthesis, though other carotenoid pigments also participate. There are four types of chlorophyll: a, b, c, and d.

WebThe formula for photosynthesis is: reactants: CO_2 , H_2O , sunlight; products: $\text{C}_6\text{H}_{12}\text{O}_6$, O_2 . This formula says that carbon dioxide, water molecules are combined with the energy from sunlight to produce sugar and oxygen. The reactants in photosynthesis, what is used, are CO_2 , water, and sun.

WebApr 14, 2020. Description: This multipart animation series explores the process of photosynthesis and the structures that carry it out. Photosynthesis converts light energy

from the sun into chemical energy stored in organic molecules which are used to build the cells of many producers and ultimately fuel ecosystems. The structures inside the organelle in model 1 are called thylakoids. What compound necessary for photosynthesis is contained in the thylakoids? Chlorophyll 3a. What substances are the reactants in photosynthesis? Include the name and chemical formula of each substance in your answer.

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