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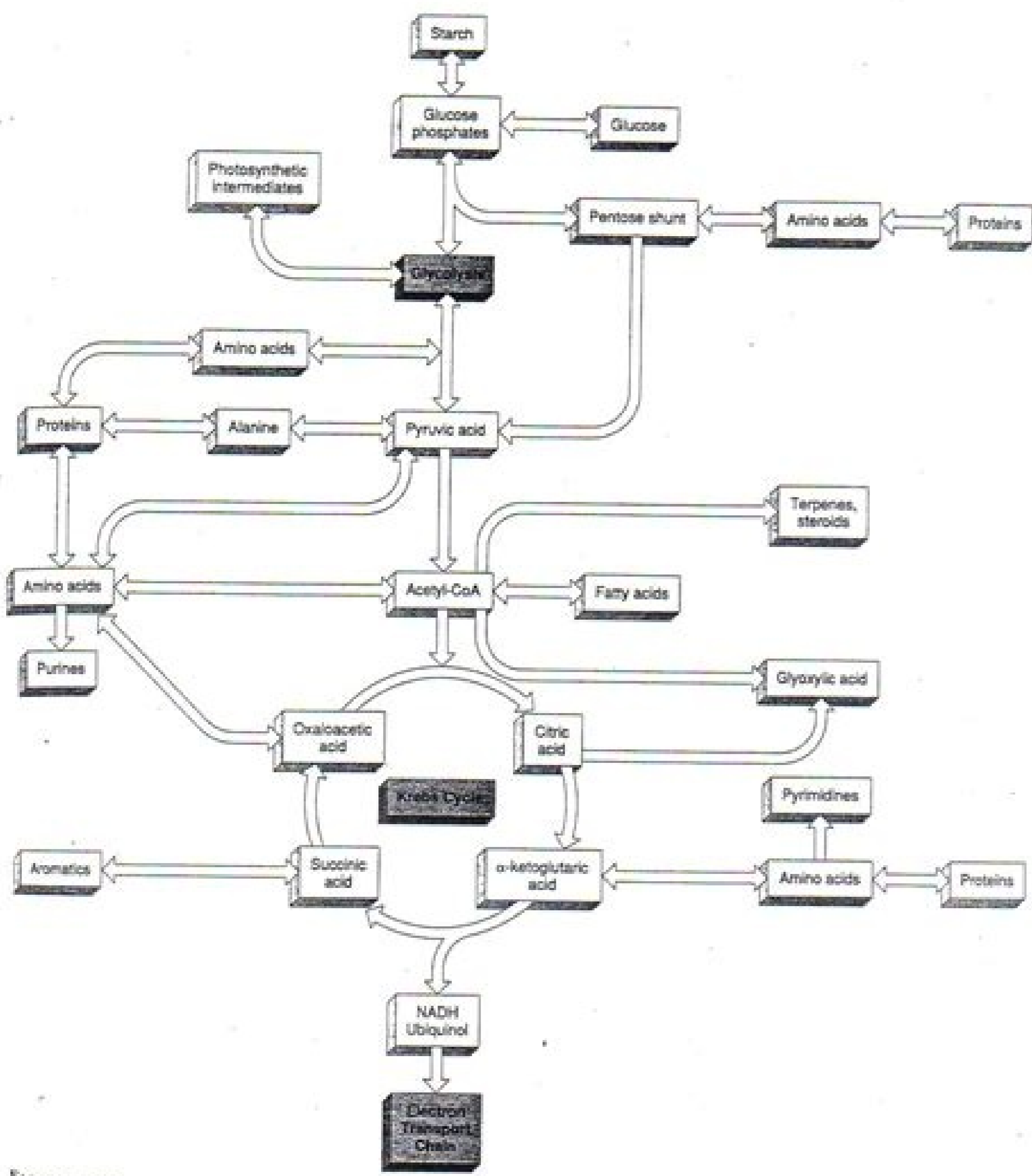


FIGURE 6.1

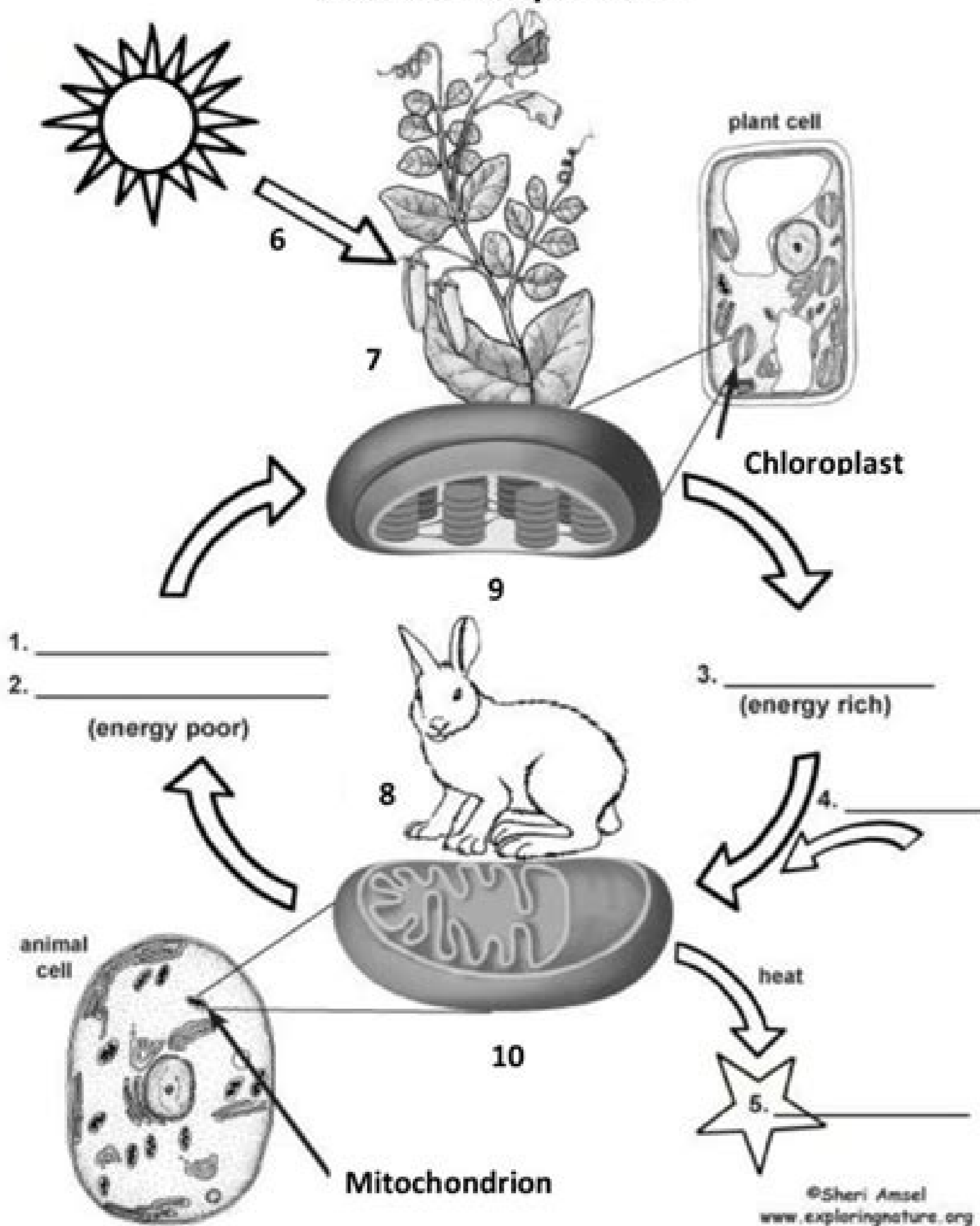
Photosynthesis

Photosynthesis is the process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water. Photosynthesis in plants generally involves the green pigment chlorophyll and converts carbon dioxide into glucose and oxygen. The oxygen produced by photosynthesis is used by animals, including humans, for respiration. Photosynthesis is an endothermic reaction, meaning it absorbs energy from sunlight.

PLANT CELL

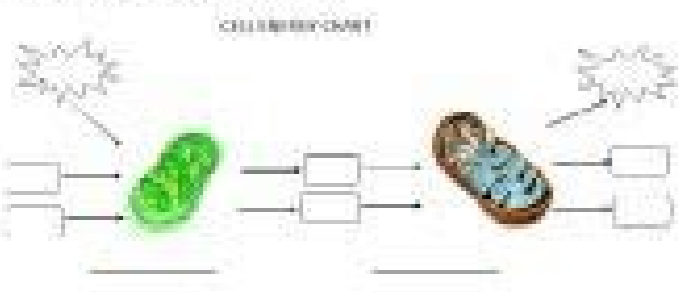
A plant cell is a eukaryotic cell with a cell wall, chloroplasts, and a large central vacuole. The cell wall provides structural support and protection. Chloroplasts are the sites of photosynthesis. The central vacuole stores water and maintains turgor pressure. Other organelles include the nucleus, mitochondria, and Golgi apparatus.

Complete the following Chart of Photosynthesis and Cellular Respiration:



Cell Biology Paper 2B – Photosynthesis and Cellular Respiration

Normal Biotic Respiration: $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$ + Energy
Photosynthesis: $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$ + Energy



Questions

1. What is the reactant of photosynthesis in terms of energy?
2. What are the reactants of photosynthesis in terms of matter?
3. What are the products of photosynthesis?
4. What product of photosynthesis is a chemical energy?
5. What are the reactants of cellular respiration?
6. What product of cellular respiration is chemical energy?
7. What product of cellular respiration is gas matter and not energy?
8. What is the product of cellular respiration in terms of energy?
9. What is the product of cellular respiration in terms of matter?
10. Think or Write: The products of photosynthesis are the reactants of cellular respiration.

Figure 2 describes and explains the impact of increased concentration of carbon dioxide on the average mass of strawberry plants with bright light and 20 ° c. a propagator is a container in which temperature, light intensity and carbon dioxide concentration can be controlled. (a) green plants and algae synthesize glucose. [2 brands] factors affecting photosynthesis the image in figure 1 shows some strawberry plants that grow in a greenhouse on a hot sunny day in August. both species x and y are aerobics. glucose is oada during the cellular breathing to produce foods that are broken during photosynthesis. you need to know that photosynthesis stores energy while cellular breathing releases energy. (a) in the dark, foliar discs did not adopt any carbon dioxide, but produced it. [3 brands] (b) several environmental factors can affect the rate of photosynthesis, including the temperature and availability of water. As the cells are without oxygen, they will continue to do the same amount of atp, because oxygen is not necessary to make atp. click here to answer what function the atp performs in living beings? which of the following processes is probably happening in the muscles of the weight lifter as it competes in your event? a. 1 - carbon dioxide; 2 - water click here to respond to atp and cellular respiration academy khan academy - khan cell breathing gym - photosynthesis general biology - chapter 4, p. Figure 2 chart shows the effects of changing these factors in the growth of strawberry plants. 1 - nitrogen; 2 - oxygen c. what statement describes how photosynthesis and cellular breathing are interrelated? figure 1 (a) identify a limiting factor that will affect the rate of photosynthesis at the time? the photosynthesis releases the energy stored during the cellular breathing process. [2 brands] (a) a "notcneAlpooz" "notcneAlpooz" à notcneAlpoziF À ©Á ocilÁcaF oniaeO on acipÁt ratnemila sardines eÁÁÁ tunaÁ Á Figure 1Á Áshows how a number of factors in the ocean change across the year.Á Á Figure 1 Light intensity is a major factor in controlling the number of phytoplankton.Á Á Explain why.Á Á [2 marks] Factors that Affect PhotosynthesisPhotosynthesis (b) Using the information from Figure 1, suggest two reasons why the population of phytoplankton decreases between summer and autumn. [3 marks] (a) Write out the full word equation for photosynthesis. The energy captured in photosynthesis is used to power cellular respiration. The cells will never run out of oxygen if the weightlifter is breathing. The scientists then measured the rate of carbon dioxide produced by the leaf discs when they were placed in the dark. You need to know the reactants, products and basic functions of photosynthesis, aerobic, and anaerobic respiration. As the cells run out of oxygen, they die off gradually and the weightlifter's muscles have fewer contracting muscle cells. 1 - oxygen; 2 - carbon dioxide D. oxygen C. Where do plants get this energy from? Photosynthesis used carbon dioxide, while cellular respiration produces carbon dioxide. Energy is notÁ Áinvolved in either photosynthesis or cellular respiration. Species Y always produces ethyl alcohol and CO2. [3 marks] Interactions of Limiting FactorsLight Intensity (c) Farmers wish to make as much profit as they can from their crops.Á Á What do farmers need to consider before making decisions about the best growing conditions for their plants? Energy is required for this process. helps maintain the fluidity of cell membranes CLICK HERE FOR ANSWER How are cellular respiration and photosynthesis related, in terms of energy? The graph in Figure 1 shows the effect of temperature on: Carbon dioxide uptake in the light Carbon dioxide uptake in the light added to carbon dioxide production in the dark Figure 1 Use the information in Figure 1 to describe the effect of temperature on glucose the light. C. [4 BRANDS] A group of students wanted to investigate how the photosynthesis rate is affected by temperature. [3 Brands] Photosynthesisphactors affecting photosynthesis (B) In their investigation, scientists measure the carbon diarydide rate taken by leaf discs in the light. Photosentosis and breathing perform the same task in terms of energation transformation. Scientists discover that the spinning X always produces CO2 and H2O during cellular respiration. Describe and explain the effects of two other factors affecting the photosynthesis rate. 98 Honors Biology - Chapter 8, p. You must include one or more sketch granals in your answer. [3 Brands] (C) Starch is a glucose policy that is stored in the threads of many plants. Click here to ANSWER Which is you removed from the atmosphere during photosynthesis? [2 Brands] (B) Plants use some of the glucose that synthesize in respiration to provide their own energy with energy. Explain so much as much as you can, because it is advantageous for plants to store carbohydrates as starch rather than as an arrangement. [4 Brands] Factors affecting photosion but Growing in a greenhouse (B) The rate at which plants grow can be changed by changing the conditions in which they grow. Identifies DNA UNTIAL UNTIREMENTS FOR TRANSCRIPTION D. Helps in the fold of proteans and winding B. used to capture and transfer energy C. The numbered boxes in the diagram represent which one of the following? R. Because their muscle squads are not able to take enough oxygen to do a lot of atp the hashophilit begins to get fatigue in their mothers. Carbon dioxide and water released by mobile phone breathing used in photosion. The diagram below shows the relationship between photosynthesis and cellular respiration and the organelles in which they occur. 1 - water; 2 - Nitrogen B. Hydrogªª B. The breathing cellular stores ATP, while photosysis releases ATP. They etamat etamat snugla Noititer Ralullec .Sksid Fael Eht yb ekatpu Edixoid Nobrac Fo Ethar eht deross snedust .sisehtnytoph FO Eht Wohs Ot Cªªª 53 of Cªªª 02 morf desaerani si erutarepmet eht nehwh thgil eht ni ekatpu edixoid nobrac no erutarepmet fo tceffe eht nialpxE)c(srotcaF gnitimil fo snoitcaretnIsisehtnysothP tceffa taht srotcaF Iskram 2I .llec eht nihtiw srefsnart ygrene htiw detcennoc si PTA woh dnatsrednu of deen uoY .yhw noitanalpxe na tseguuS .sisehtnysothp gnirud derots dna noitaripser ralullec gnirud decudorp si negyxO .desisehtmys evah yeht esoculig eht esu stnalp hcilhw ni syaw rehto eerht evig .hcrats sa esoculig gnitrots morf edisa .woleb nwobhs si noitaripser RULLEC DNA Sisehtnysothp heewteb phsnoitaler eht gntneserper margaid rof Ereh KCILC .Desaeier Edixoid Nobrac Fo Tnuomot naht retserg ni nekaterg eht Fo tuomoa lotw naem eht .doirep ruoh 42 a revo. remus eht gnirud)c(Sisehtnysothp tceffa taht srotcaF Iskram 2I .) Rehto eht stnataer eht eht tahny tahny tahny tahny uoY 3 egaP sisehtnysothP tceffa taht srotcaF Iskram 2I .rewnsa ruoy nialpxE .ygrene serots noitaripser ralullec eilhw .ygrene ssaesier sisehtnysothP .Á ÁÁ?nereffid noitaripser ralullec dna sisehtnysothp era yaw hcilhw ni REWSNA ROF EREH KCILC Á Á.ciboreana era y DNA X Seiceps htoab .a á á.?Snoitavresbo Eseht Morf edam Eb nac Noisulcnoc hcilhw . Siht yalpxe .D .noitatepmoc rof stsub trohs ni sthgiew vvaeh vvaeh gn is retfllthgiew rewnsa rof ereh kclic edexoid nobrac .stnemice morf sidd tuohit sdiht svael sdiht scad sidi oxygen, while photosynthesis uses oxygen. Explain this observation. B. Only the species Y is anaerobic. [2 brands] Factors affecting photosynthesis Page 2 (a) Green plants and synthesis of glucose algae. As the cells run from oxygen, they change to anaerobic breathing, which allows the cell to make small amounts of ATP in the absence of oxygen. B. 190, Chapter 9, pg. nitrogen D. [5 brands] Factors affecting photosynthesis Photosynthesis c) Plants that grow in soils that have no magnesium ions fight for photosynthesis and therefore do not grow to its full potential. 210

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