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THINK ABOUT IT. How would you design a system to capture the

energy of sunlight and convert it into a useful form? Plants have

solved these issues—and maybe we can learn a trick or two from

them. Light. Energy from the sun travels to Earth in the form of

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Explain the role of light and pigments in photosynthesis. Explain

the role of electron carrier molecules in photosynthesis. State the

overall equation for photosynthesis. Lesson Summary Chlorophyll

and Chloroplasts In eukaryotes, photosynthesis occurs in

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Chloroplasts house light-absorbing chemicals. 1 Light is a form of energy. Sunlight is a mixture of all the different colors of visible light. 2 Light-absorbing molecules called pigments capture the sun's energy. 3 Chlorophyll is the principal pigment in photosynthetic organisms. 8.2 Photosynthesis An Overview.doc - Name Class Date 8.2 ... 8-2 Photosynthesis: An overview Photosynthesis When plants use energy from the sun to convert water and carbon dioxide into oxygen and high-energy carbs Van Helmont ... - PowerPoint PPT presentation. PPT - 8-2 Photosynthesis: An overview PowerPoint ... An Overview of Photosynthesis Usually summarized by a simple chemical reaction, photosynthesis is a complex process that involves two interdependent sets of reactions. The light-dependent reactions require light, light-absorbing pigments, and water to form NADPH, ATP, and oxygen. The light-independent reactions do not use light energy. 8.2 Photosynthesis: An Overview - Biology Photosynthesis is a series of reactions that uses light energy from the sun to convert water and carbon dioxide into sugars and oxygen. because photosynthesis uses its reactants and converts them into energy (such as high energy sugars and oxygen) such as the way the solar panels do. solar power uses cells or panels to absorb the sun's energy. that energy is then used to create electricity. how does this compare to the light dependent reactions of photosynthesis.

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Section 8-2 Photosynthesis: An Overview(pages 204-207) This section describes what important experiments revealed about how plants grow 8.2 photosynthesis an overview answers. It also introduces the overall equation for photosynthesis and explains the roles light and chlorophyll have in the process. Introduction (page 204) 1.

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From which set of reactions is each product of photosynthesis generated? Light-dependent reactions: sunlight and water enter; oxygen is lost as a byproduct; ATP and NADPH are produced. Light-independent reactions: carbon dioxide enters; glucose is made using the energy provided by ATP and NADPH; ADP and NADP⁺ are cycled back for re-use in the light-dependent reactions.

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What occurs in the process of Photosynthesis? Plants use energy from sunlight to convert water and carbon dioxide into high-energy carbohydrates and oxygen. What did Jan van Helmont conclude from his experiment? most of the mass gained by the tree came from the water

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An Overview of Photosynthesis Usually summarized by a simple chemical reaction, photosynthesis is a complex process that involves two interdependent sets of reactions. The light-dependent reactions require light, light-absorbing pigments, and water to form NADPH, ATP, and oxygen. The light-independent reactions do not use light energy.

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Photosynthesis is a multi-step process that requires sunlight, carbon dioxide (which is low in energy), and water as substrates (Figure $\{\{3\}\}$). After the process is complete, it releases oxygen and produces glyceraldehyde-3-phosphate (GA3P), simple carbohydrate molecules (which are high in energy) that can subsequently be converted into glucose, sucrose, or any of dozens of other sugar molecules.

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Lesson Summary Chlorophyll and Chloroplasts In eukaryotes, photosynthesis occurs in organelles called chloroplasts.

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The Two Parts of Photosynthesis Photosynthesis takes place in

two sequential stages: the light-dependent reactions and the

light-independent reactions. In the light-dependent reactions,

energy from sunlight is absorbed by chlorophyll and that energy is converted into stored chemical energy.

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