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This is an updated version of my class notes on the topic of photosynthesis. I use this presentation during my honors biology class at Beverly Hills High School. This is taught at the 9th grade ...

The description of photosynthesis here refers to structures and actions in plants, but the fundamentals apply as well to algae and to some aspects of procaryote (cyanobacterial) photosynthesis. Most of the reactions occur simultaneously in nanoseconds (10⁻⁹) or less in various parts of the chloroplasts, but understanding the process is easier if it's separated into sequential

steps.

4. to use energy from the light-dependent reactions to convert carbon dioxide into sugars. Calvin Cycle steps: (1) Carbon dioxide is added to the Calvin cycle. (2) Energy is used to split six-carbon molecules. Three-carbon molecules are formed and rearranged.

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SECTION PHOTOSYNTH-

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Reinforcement 4.3: Photosynthesis in Detail KEY CONCEPT Photosynthesis requires a series of chemical reactions. Photosynthesis takes place in two main stages: the light-dependent reactions and the light-

Section 3: Photosynthesis in Detail Study Guide A

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43 Photosynthesis In Detail Study

In photosystem II, chlorophyll and other light-ab-

sorbing molecules in the thylakoid membrane absorb energy from sunlight. Photosystem II and Electron Transport. Energy absorbed from sunlight, Water molecules split, Hydrogen ions transported, Energy absorbed from sunlight, NADPH produced, Hydrogen ion diffusion, and ATP produced.

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membrane-bound structure within chloroplasts that contains chlorophyll and other light-absorbing pigments used in the light-dependent reactions of photosynthesis. light-dependent reactions. part of photosynthesis that absorbs energy from sunlight and transfers energy to the light-independent reactions.

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Reinforcement 4.3: Photo-

synthesis in Detail KEY CONCEPT Photosynthesis requires a series of chemical reactions. Photosynthesis takes place in two main stages: the light-dependent reactions and the light-

SECTION QUIZ 4.3: Photosynthesis in Detail

Photosynthesis is not a single chemical reaction, but rather a set of chemical reactions. The overall reaction is: $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$; 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 ...

Photosynthesis Study Guide - Key Concepts

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Details of Photosynthe-

sis in Plants

4.3seCTion The first stage of photosynthesis captures and transfers energy. In Section 4.2 you read a summary of photosynthesis. Now, we will look at the process more closely. During the light-dependent reactions, energy is captured from sunlight and moved along the thylakoid membrane. This process involves two groups of molecules called photosystems.

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Study Guide A continued Holt McDougal Biology 9 Cells and Energy Study Guide A Section 3: Photosynthesis in Detail 3. A. 4. 2. 1. Vocabulary Check Circle the word or phrase that best completes the statement. 7. The electron transport chain is a series of proteins / carbohydrates in the thylakoid membrane along which energized electrons travel. 8.

Section 3: Photosynthesis in Detail Study Guide A

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Photosynthesis (in detail)

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SECTION PHOTOSYNTHESIS IN DETAIL Study Guide

Organelles where photosynthesis takes place. 5. In which two parts of a chloroplast does photosynthesis take place? Grana and the stroma. 6. What are thylakoids? Coin shaped compartments that contain chlorophyll and are found in grana. 7. Write the chemical equation for the overall process of photosynthesis. a.

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SECTION QUIZ 4.3: Photosynthesis in Detail

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