

Name: _____

Section: _____

Activity 3**Light Reaction and Dark Reaction**

A. Directions. Fill in the blanks with the words given below. Some of the words may be used more than once. Use a separate sheet of paper.

electrons
energy
light
oxygen
ATP
glucose

electron transport chain
photosystem I
photosystem II
NADPH
ADP

carbon dioxide
light dependent
light independent
ATP synthase
water
photosystem

Photosynthesis occurs in the part of the cell called the chloroplast. Inside this part of the cell are flattened sacs called thylakoids. Within the membranes of these flattened sacs the (1) ____ reactions will occur. Large stacks of these sacs are called grana. Surrounding these flattened sacs is a dense solution called the stroma. In this solution, the (2) ____ reactions will occur. The purpose of photosynthesis is to take the reactants (3) ____, (4) ____, and (5) ____ and produce the products of (6) ____ and (7) ____.

A (8) ____ is a collection of chlorophyll molecules that serve as the light collecting unit of photosynthesis. These chlorophyll molecules are found embedded in the thylakoid membranes.

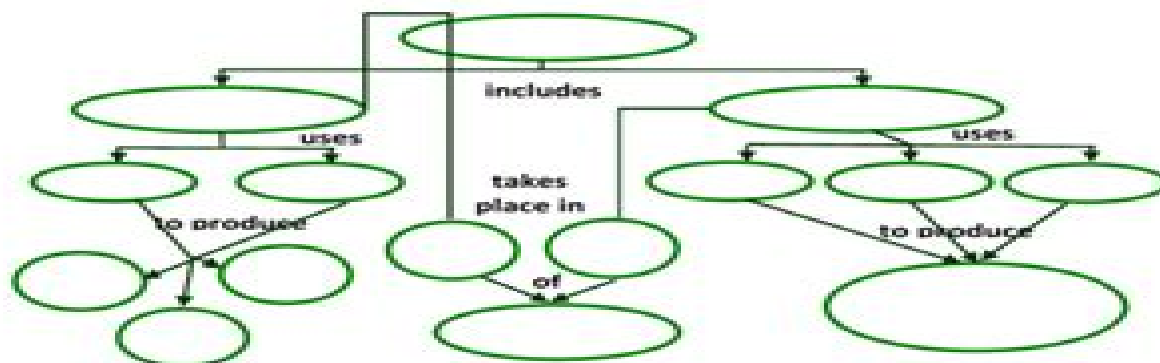
Let's start with photosystem II. Chlorophyll molecules in photosystem II absorb the (9) ____ from the sun. The (10) ____ of these chlorophyll molecules become very excited. These are boosted to a higher energy level and are passed to an (11) _____. The electrons that were lost from these molecules of chlorophyll must now be replaced. Molecules of water are split and the electrons from this are used to replace the electrons that were lost. The (12) ____ from the water is considered a waste product and is released to the atmosphere. The high energy electrons now move down the electron transport chain as they are passed from photosystem II to (13) _____. As the electrons are passed down this electron transport chain, protein molecules use the energy from these electrons to create ATP.

The electrons from photosystem II arrive at photosystem I. The chlorophyll molecules of photosystem I absorb energy from the sun and use it to re-energize the electrons. These electrons are passed down a second electron transport chain to the electron acceptor called NADP⁺. NADP⁺ joins with these electrons and one H⁺ to form (14) _____.

ATP is actually formed when H⁺ ions flow through (15) ____ from an area of high concentration inside the thylakoid to an area of low concentration outside the thylakoid. As hydrogen passes through the enzyme ATP synthase the protein spins, creating energy. This energy is used to convert (16) ____ to (17) _____. Hydrogen ions must now be pumped back inside the thylakoid from the stroma. These will be pumped against the concentration gradient and will require energy. The energy for this process comes from the electron transport chain.

The purpose of the light dependent reactions is to produce (18) ____ and (19) ____ so that they can be used in the (20) ____ reactions.

B. Directions. Complete the concept map by supplying the appropriate words.



Light Unit Study Guide Answers

**Eldon D.. Enger,Enger,Frederick C..
Ross**



Light Unit Study Guide Answers:

Resources in Education ,1981 Student Study Guide & Selected Solutions Manual David D. Reid,2007 *Study Guide with ActivPhysics* Alan Van Heuvelen,1999 **Student Study Guide to Accompany Astronomy** Michel Breger,1975

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The Electrical Engineer ,1905 **Gas World** ,1929 Study Guide: Sg Concepts in Biology Eldon D.. Enger,Enger,Frederick C.. Ross,2003 *Light* ,1925 **Instructional Materials** University of Illinois at Urbana-Champaign. Vocational Agriculture Service,1992

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Table of Contents Light Unit Study Guide Answers

1. Understanding the eBook Light Unit Study Guide Answers
 - The Rise of Digital Reading Light Unit Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Light Unit Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Light Unit Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Light Unit Study Guide Answers
 - Personalized Recommendations
 - Light Unit Study Guide Answers User Reviews and Ratings
 - Light Unit Study Guide Answers and Bestseller Lists
5. Accessing Light Unit Study Guide Answers Free and Paid eBooks
 - Light Unit Study Guide Answers Public Domain eBooks
 - Light Unit Study Guide Answers eBook Subscription Services
 - Light Unit Study Guide Answers Budget-Friendly Options

6. Navigating Light Unit Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Light Unit Study Guide Answers Compatibility with Devices
 - Light Unit Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Light Unit Study Guide Answers
 - Highlighting and Note-Taking Light Unit Study Guide Answers
 - Interactive Elements Light Unit Study Guide Answers
8. Staying Engaged with Light Unit Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Light Unit Study Guide Answers
9. Balancing eBooks and Physical Books Light Unit Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Light Unit Study Guide Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Light Unit Study Guide Answers
 - Setting Reading Goals Light Unit Study Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Light Unit Study Guide Answers
 - Fact-Checking eBook Content of Light Unit Study Guide Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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