

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.

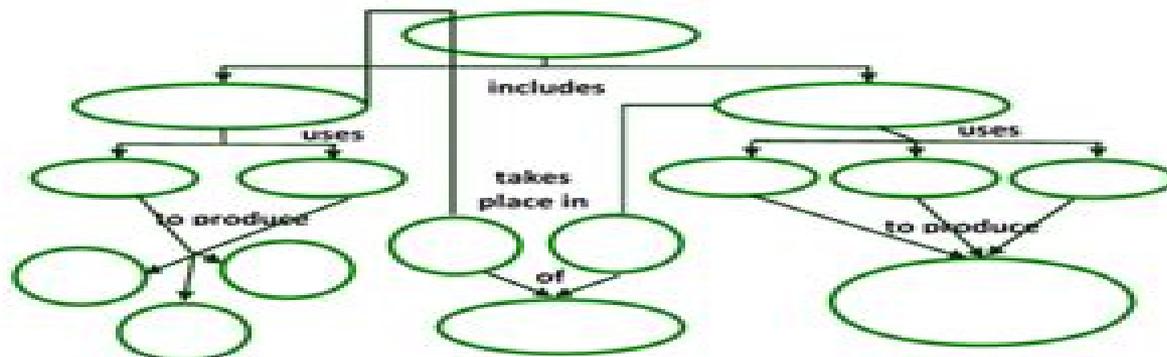
Let's start with photosystem II. Chlorophyll molecules in photosystem II absorb the (9) \_\_\_\_ from the sun. The (10) \_\_\_\_ of these chlorophyll molecules become very excited. These are boosted to a higher energy level and are passed to an (11) \_\_\_\_. The electrons that were lost from these molecules 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<sup>+</sup>. NADP<sup>+</sup> joins with these electrons and one H<sup>+</sup> to form (14) \_\_\_\_.

ATP is actually formed when H<sup>+</sup> 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 And Color Study Guide Answers

**Tobias Bleicker**



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