# Campbell Biology Concepts and Connections Chapter 7 - Study Questions

One of the important waste products of photosynthesis is oxygen gas. Where does this oxygen gas come from? - correct answer Oxygen is released when water is broken down to extract electrons and protons for use in the light reactions.

The light reactions produce \_\_\_\_\_. - correct answer oxygen, NADPH, and ATP

The thylakoid membranes bring together the components necessary to carry out the \_\_\_\_\_. - correct answer light reactions

Incoming photons of light energy initiate photosynthesis by \_\_\_\_\_. - correct answer exciting electrons in pigment molecules within the photosystems, raising them to a higher energy level

What summarizes the inputs and outputs of the Calvin cycle? - correct answer ATP + NADPH + 3CO 2 → G3P

What is the equation that represents photosynthesis? - correct answer 6CO2 + 6H2O → C6H12O6 + 6O2

Where does photosynthesis take place? - correct answer in the chloroplast

What connects the two photosystems in the light reactions? - correct answer An electron transport chain

What two molecules are produced by the light reactions and used to power the Calvin cycle? - correct answer ATP and NADPH

What provides electrons for the light reactions? - correct answer H2O

What provides the carbon atoms that are incorporated into sugar molecules in the Calvin cycle? - correct answer Carbon dioxide (CO2)

What transports electrons from the light reactions to the Calvin cycle? - correct answer NADPH

The light reactions take place in the \_\_\_\_\_ and the Calvin cycle takes place in the \_\_\_\_\_. - correct answer thylakoids; stroma

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