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Chapter 8

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| **Across****2.** set of reactions in photosynthesis that do not require light **4.** fluid portion of the chloroplasts, outside of the thylakoids **11.** set of reactions in photosynthesis that use energy from light to produce ATP and NADPH**12.** cluster of chlorophyll and proteins found in Thylakoids **13.** light-independent reactions of photosynthesis in which energy from ATP and NADPH is used to build high-enrgy compounds such as sugar**14.** carrier molecule that transfer high-energy electrons from chlorophyll to other molecules**15.** process used by plants and other autotrophs to capture light energy and use it to power chemical reactions that convert carbon dioxide and water into oxygen and energy-rich carbohydrates such as sugars and starches | **Down****1.** series of electron carrier proteins that shuttle high-energy electrons during ATP-generating reactions **3.** compound used by cells to store and release energy **5.** organism that obtains food by consuming other living things; also called consumer**6.** cluster of proteins that span the cell membrane and allow hydrogen ions to pass through **7.** organism that is able to capture energy from sunlight or chemicals and use it to produce its own food **8.** light-absorbing molecule used by plants to gather the sun's energy**9.** principal pigment of plants and other photsynthetic organisms**10.** sac like photosynthesis membranes found in chloroplasts |