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Chapter 8 and 9 Biology

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| **Across**  **2.** process by which cells release energy in the absence of oxygen  **6.** Organelle found in cells of plants and some other organisms that captures the energy from sunlight and converts it into chemical energy  **9.** Set of reactions in photosynthesis that use energy from light to produce ATP and NADPH  **10.** first set of reactions in cellular respiration in which a molecule of glucose is broken into two molecules of pyruvic acid  **11.** process that does not require oxygen  **12.** 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  **13.** Light-absorbing molecule used by plants to gather the sun's energy | **Down**  **1.** second stage of cellular respiration in which pyruvic acid is broken down into carbon dioxide in a series of energy-extracting reactions  **3.** Set of reactions in photosynthesis that do not require light; energy from ATP and NADPH is used to build high-energy compounds such as sugar (Calvin Cycle)  **4.** process that releases energy by breaking down glucose and other food molecules in the presence of oxygen  **5.** Compound used by cells to store and release energy (ATP)  **7.** Principal pigment of plants and other photosynthetic organisms  **8.** process that requires oxygen |