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Photosynthesis & Cellular Respiration

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| **Across**  **4.** a partial degradation of sugars that occurs without oxygen  **6.** the breakdown of one molecule of glucose into two molecules of pyruvate with a small net yeild of ATP  **11.** organism that obtains food by consuming other living things  **12.** a series of molecules built into the inner mitochondria membrane  **13.** principal pigment of plants and other photosynthetic organisms  **14.** light independent reactions of photosynthesis in which energy from ATP and NADPH is used to build high energy compounds such as sugar | **Down**  **1.** the water and carbon dioxide into carbohydrates and oxygen process in which plants use the energy from sunlight to convert  **2.** where pyruvic acid is broken down into carbon dioxide in a series of energy-extracting reactions; occurs in the mitochondria  **3.** the process that releases Energy by breaking down food molecules in the presence of oxygen  **5.** an organism capable of synthsizing its own food using sunlight  **7.** a process that does not require oxygen  **8.** fluid portion of the chloroplasts; outside the tylakoids  **9.** Adenosine triphosphate; an electron carrier  **10.** occurs in the presence of oxygen |