Energy, Photosynthesis, and Cellular Respiration

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| **Across**  **3.** A series of anaerobic chemical reactions in the cytoplasm that breaks down glucose into pyruvic acid.  **5.** Chemical reactions that require the process of oxygen.  **7.** Chemical process where mitochondria breaks down food molecules to make ATP.  **8.** A molecule that absorbs specific wavelengths of sunlight.  **10.** Process by which autotrophs trap energy from sunlight.  **11.** The molecule that is formed from the breaking off of a phosphate group for ATP.  **12.** Series of reactions during the light independent phase of photosynthesis.  **13.** An electron carrier molecule. | **Down**  **1.** Absorbs light to provide energy for photosynthesis.  **2.** Anaerobic process in which cells convert pyruvic acid into carbon dioxide and ethyl alcohol.  **4.** Chemical reactions that do not require the presence of oxygen.  **6.** Reaction that takes place in the the thylakoid membranes of a chloroplast during light-dependent reactions  **9.** Molecule in cells that stores energy. |