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. |