

Photosynthesis is the process by which plants and other organisms use energy from sunlight to convert carbon dioxide and water into sugars, which are used for cellular energy. Photosynthesis occurs in two stages: the light-dependent reactions, which take place in the chloroplasts of cells and require light energy to convert carbon dioxide and water into a form of energy called ATP; and the light-independent reactions, which take place in the stroma of the chloroplast and which convert ATP energy into the

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