Photosynthesis

Photosynthesis is the process by which green plants make their own food using sunlight, carbon dioxide, and water. It occurs in the chloroplasts of plant cells, which contain the pigment chlorophyll. The chemical equation is: 6CO■ + 6H■O + sunlight → C■H■■O■ + 6O■. This glucose is used by the plant for energy and growth. Oxygen is released as a byproduct. Photosynthesis consists of light-dependent reactions and the Calvin cycle. It plays a crucial role in the carbon cycle and supports life on Earth by producing oxygen and removing carbon dioxide.

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