Photosynthesis is the process by which plants and some other organisms convert light energy into chemical energy in the form of sugars, using carbon dioxide and water, and releasing oxygen as a byproduct. It's a fundamental process for life on Earth, providing the food and oxygen needed for most organisms

* **Light Energy Conversion:**

Photosynthesis essentially captures light energy, typically from the sun, and transforms it into a form of energy that can be used to build complex organic molecules.

* **Carbon Dioxide and Water:**

Plants take in carbon dioxide from the air and water from the soil, which are used as raw materials for the process