

Chapter 1

Photosynthesis

INTRODUCTION

Central Concept: The first law of thermodynamics states that energy cannot be created or destroyed, only the form can be changed. Living organisms do not “make” energy; they convert it from an environmental source (e.g., sunlight, food molecules) instead. The second law states that these energy conversions are not 100% efficient, i.e., there is a decrease in available energy with each conversion.

The balanced equation for photosynthesis is as follows:



This means that inorganic molecules (carbon dioxide and water) can be assembled into glucose if the energy of sunlight is supplied. Oxygen and water are also produced. Photosynthesis is one of the most important metabolisms in the biological world. As a result of this reaction, green plants accomplish three major things: energy of sunlight is converted into chemical energy, inorganic molecules are converted into organic molecules, and oxygen is released as an end product. Let's look at each in more detail.

1. The energy of sunlight is trapped by a plant pigment called chlorophyll during photosynthesis; this trapped energy is then formed into the chemical bonds that hold organic molecules together. When these bonds are broken at a future time, their energy can be released to power the growth, reproduction, and other energy-requiring processes of the plant. Since many animals (including humans) eat plants, the energy in these organic molecules is used to power the metabolism of animals as well.
2. Photosynthesis is one way of converting inorganic molecules into organic molecules. Inorganic molecules (CO_2 and H_2O) are used to produce an organic molecule called PGAL (= **p**hosphog**ly**cer**al**dehyde). PGAL is a three-carbon molecule that the plant can (with the proper enzymes, inorganic molecules, and organic molecules) convert into amino acids, fatty acids, and glucose. Only green plants, algae, and a few species of bacteria can turn inorganic molecules into organic ones.
3. Free oxygen gas (O_2) is released into the environment as a product of photosynthesis. Plants and animals require this oxygen for aerobic cellular respiration, which is the way the bonds in glucose are broken down to release energy.

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Daniela Niemeyer



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Increasing the NADPH supply for whole-cell biotransformation and development of a novel biosensor Solvej Siedler,2013

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