

Study Guide Plant Processes and Plants Test

Photosynthesis

- **Photosynthesis** is a process where plant cells use the **energy from sunlight** to make **food** (glucose, $C_6H_{12}O_6$) from **carbon dioxide** (CO_2) and **water** (H_2O).
- Photosynthesis takes place in **chloroplasts**.
 - **Chlorophyll** is a green pigment, found in chloroplasts, that absorbs light energy for photosynthesis.
 - Chlorophyll gives plants their **green** color.
- An organism with chloroplasts is called a **producer**.

Photosynthesis can be summarized by the following equation:



- Nearly all of the energy that fuels life comes from the **sun**.

Stomata: openings in the epidermis and cuticle of the leaf that allow **carbon dioxide** to enter the leaf and **water and oxygen** to exit it.



Transpiration: the **loss** of water from plant leaves through openings called stomata.

Photosynthesis Study Guide

Dr. Abhishek M



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