

## Lesson Plan

# Functions of Leaves

### Part 1

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## Assignment

Grade 5, Unit 3, Lesson 11 (Part 1)

## Introduction

Hello everyone!

Let us try to imagine a plant. Now, what are the main parts of a plant? Roots, stems, leaves, flowers, fruits, seeds. Leaves produce food for the plant through a process called photosynthesis. The leaves of different plants vary widely in shape, size and color.

Today we will learn about the function of leaves.

## Video

Let us watch this video.

[Structure and Functions of Leaves](#)

## Review

- The leaf is one of the main parts of the plant.
- Leaves produce food for the plants through a process called photosynthesis.
- Leaves vary in size, shape and color.
- Carbon dioxide enters the leaf and oxygen moves out.
- The leaf absorbs sunlight, water and air for the plant.
- The stomata is the part of the leaf which allows for the exchange of gases.

## Reinforcement Exercises

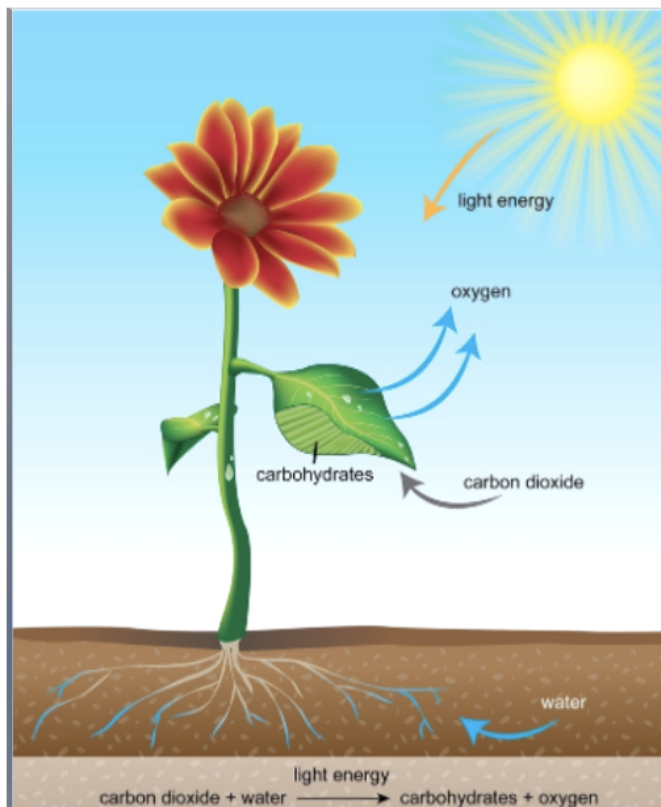
Try these on your own.

1. The \_\_\_\_\_ in leaves facilitates gaseous exchange of plants.
2. The leaves absorb \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ for the plant.
3. \_\_\_\_\_ is responsible for the green color in leaves.
4. The blade of the leaf is also called the \_\_\_\_\_.

## Solutions

1. Stomata
2. Sunlight, air and water
3. Chlorophyll
4. Lamina

## Further Reading



Inside all leaves are substances called pigments which give leaves their colors. In plants, this pigment is called chlorophyll. Do you know where plants get energy from? The sun. However, chlorophyll is responsible for absorbing energy from sunlight. The leaves then use this energy to make sugars (glucose), which is food for the plant.

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## Scratch Challenge

Make a simple animated story in Scratch describing the functions of chlorophyll in the leaf. Be sure to complete your *Further Reading* activity before starting this challenge. Good luck!