## **Gaseous Exchange in Plants:**

Plants Have No organs or systems for exchange of Gases with the environment every cell of the plant body exchange gases with the environment by its own.

the leaves and the young stems have stomata in their epidermis. The gaseous exchange occurs through these stomata. The inner cells of leaves (mesophyll)and stems also have air spaces among them, which help in the exchange of gases. In young stems and leaves, some gaseous exchnage also occurs through the cuticle which is present over their epidermis

## Gaseous Exchange in a Leaf

leaf cells faces two situations. During the day time when the mesophyll cells of leaves produced during cellular respiration is utilized in photosynthesis. however, during environment and release carbon dioxide through stomata.

In woody steam and mature roots, the entire confact is covered by bark which is impervious to gases or water .however, there are certain pores in the layer of bark. These are called the lentings nicels allow air to pass through them. the lenticels are slightly

Gases diffuse in and out of the general surface of the young roots the gases are found in the soil surrounding the roots.

The aquatic plants get the oxygen dissolved in water and release carbon dioxide in the water.

## **Practical work:**

investigate the effect of light on the net gaseous exchange from Leaf

stomata are the Microscopic pores in the epidermis of leaves. They are the passageways for gases and water vapours.opening and closing of stomata controls the gaseous exchange.