

WELCOME TO THE ONLINE CLASS

SESSION NO.: 2

CLASS: 4

SUBJECT: SCIENCE

CHAPTER NUMBER: 6

CHAPTER NAME: PLANTS- PREPARING AND STORING FOOD

SUB TOPIC: PARTS OF LEAF

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

- structure of a typical green leaf.
- parts of a leaf

RECAPITULATION

- **Green leaves need air, water and sunlight to prepare food.**
- **Sunlight provides energy to these leaves for preparing food.**
- **Photosynthesis is the process of making the food in plants with the help of carbon dioxide, sunlight and water.**
- **During photosynthesis, plants take in carbon dioxide and water from the air and soil.**

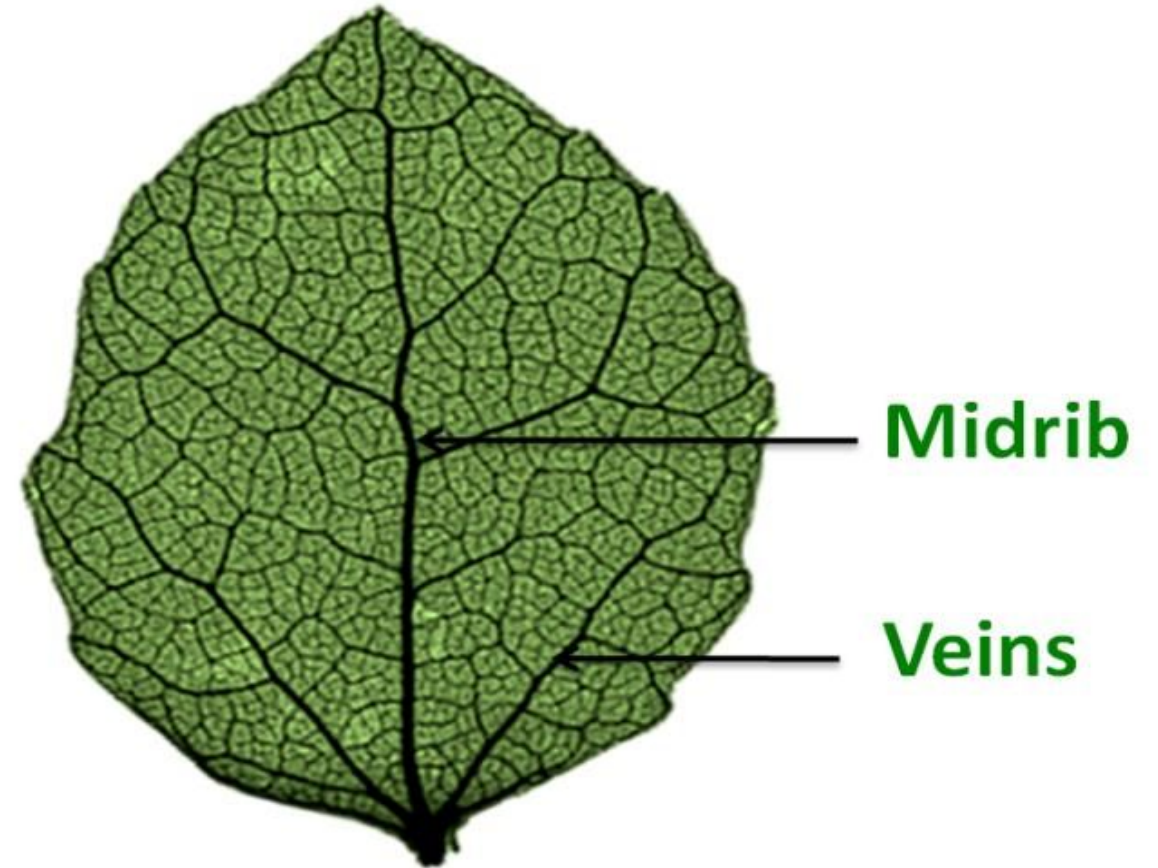
PARTS OF LEAF

- Observe this peepal leaf and its lower surface.
- You will see a *main vein* running along the centre of the leaf.
- It has a number of *side veins*.
- The main vein is called as *midrib*.

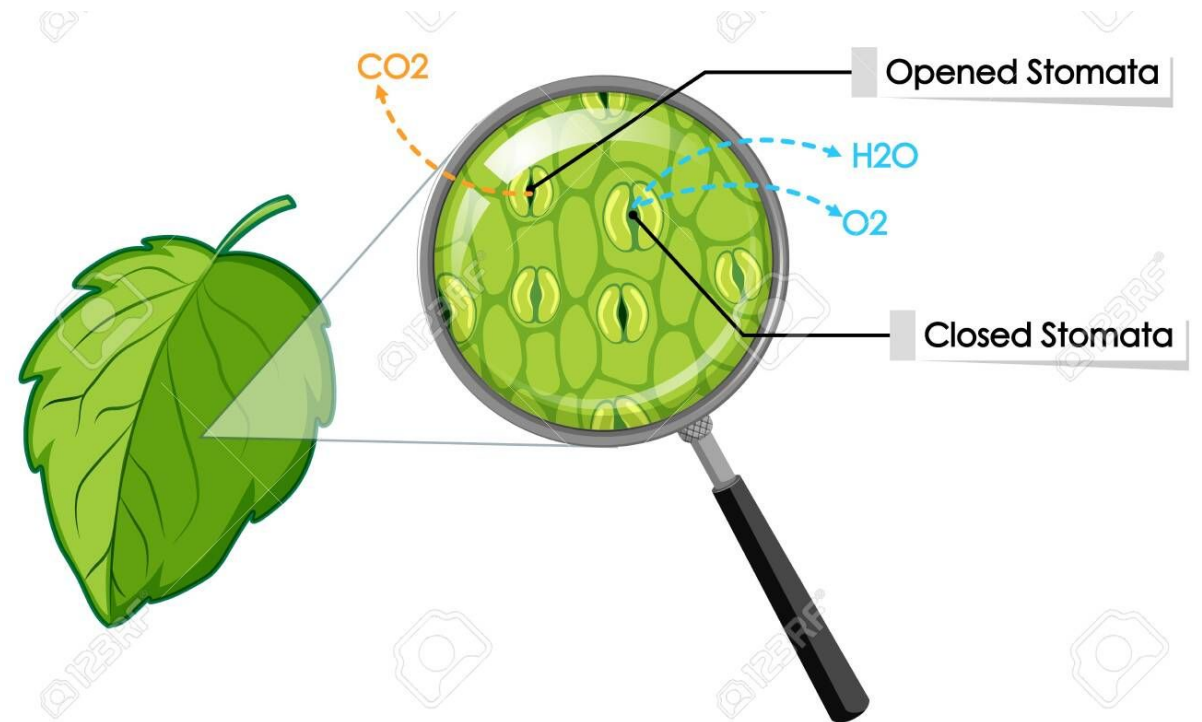


MIDRIB OF A LEAF

- Midrib is formed by double pipeline of cells.
- One pipeline carries water and minerals.
- Another pipeline carries prepared food from the green cells to the other parts of the plant.

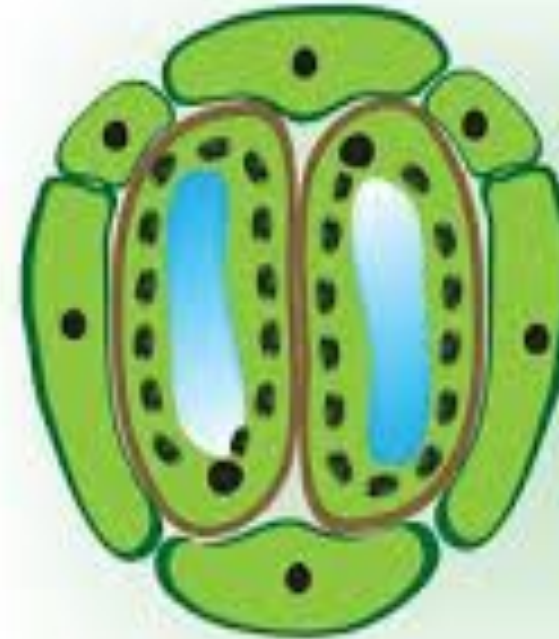


- On the underside of a leaf are tiny pores called stomata.
- ‘Stoma’ singular
- Stomata are seen under microscope.



FUNCTION OF STOMATA

- During photosynthesis, a leaf takes in carbon dioxide and gives out oxygen and water vapour through stomata.
- It helps in removing water from the leaves.



SUMMARY

- **A midrib provides strength throughout the leaf, keeping it upright and sturdy in the wind.**
- **Chlorophyll is the green pigment that absorbs sunlight.**
- **Midrib is formed by double pipeline of cells , pipelines carries water and minerals.**
- **On the underside of a leaf are tiny pores called stomata.**
- **Its main function is the exchange of gases by opening and closing the pores in the leaves.**



Q1. Which vein is called as main vein?

Ans: Midrib

Q2. Which is the green pigment that absorbs sunlight?

Ans: Chlorophyll

Q3. What helps in removing water from leaves?

Ans: Stomata

Q4. On the underside of a leaf are tiny _____ called stomata?

Ans: pores

HOMEWORK

- **Draw a labelled diagram of structure of a leaf in your notebook.**

LEARNING OUTCOME

The learner will be able to:

- **structure of a typical green leaf.**
- **parts of a leaf**

THANKING YOU
ODM EDUCATIONAL GROUP