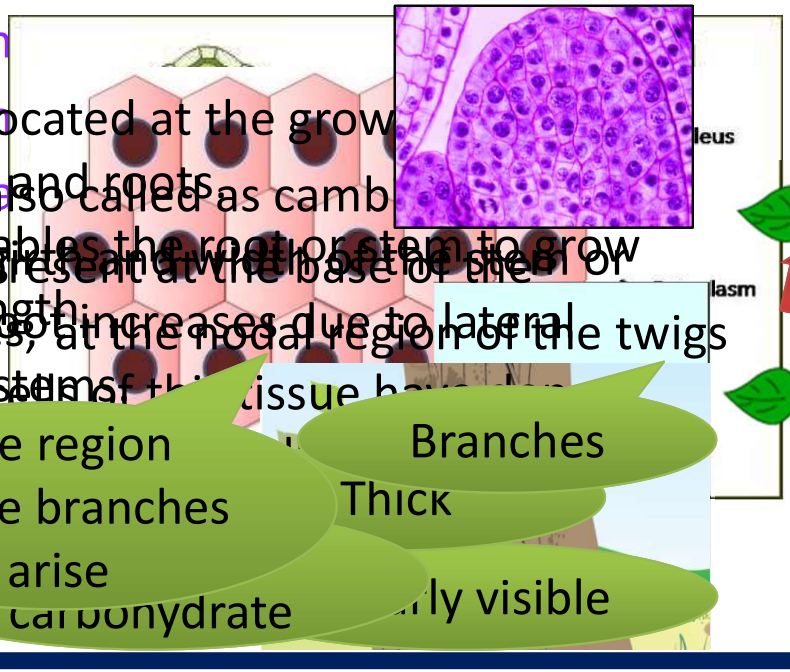
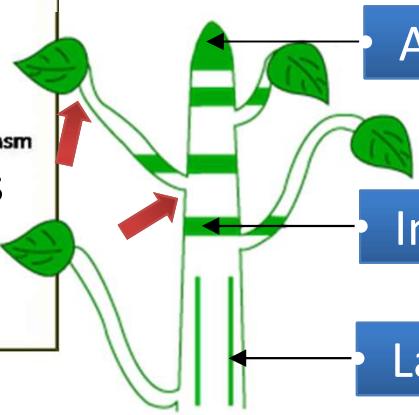
MERISTEMATIC TISSUES

- Meristematic tissue is the only plant tissue that produces new cells by cell division.
- These cells are thin walled with conspicuous nucleus and divide rapidly.
- Depending upon the ... they are situated meristematic tissues are classified as : Let us study them one by one

Easily seen

1. Apical m...
2. Lateral m...
3. Intercala...
   - It is located at the grow... stem and roots
   - It is also called as camb...
   - It enables the root or stem to grow in length
   - It is present at the base of the leaves, at the nodal region of the twigs
   - The root increases due to lateral meristems of th... tissue ha...





Apical meristem

Intercalary meristem

Lateral meristem

The region where branches arise

Branches

Thick

...ly visible

carbonydrate

PERMANENT TISSUES

- The cells formed by the division of meristematic tissue take up a specific role and lose the ability to divide. As a result, they form permanent tissue.
- This process of taking up permanent shape, size and a function is called differentiation.

Simple permanent tissues

Made up of more than one type of cells

Simple tissues are of 6 types :

- Chlorenchyma
- Aerenchyma
- Collenchyma
- Sclerenchyma
- Surface tissue (Epidermis)

Complex permanent tissues

are further classified as:

up of one of cells

Complex tissues are of 2 types :

- Phloem

Let us study them one by one