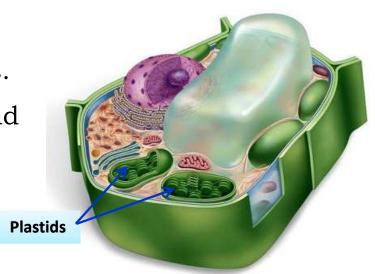
# **Plastids:**

Plastids are double membrane structures present only in plant cells.

They give colour to leaves, flowers and fruits.





are of two types

#### Coloured

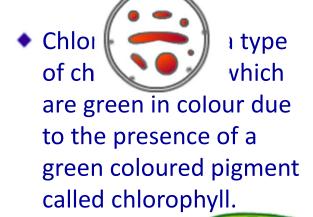
are called

Chromoplasts

Colourless or white

are called

Leucoplasts





### Functions of plastids:

- Chloroplasts help to harness solar energy and convert it into chemical energy in the form
- Chromoplasts give colour to nowers and fruits.
- Leucoplasts are involved in the synthesis and storage of various kinds of food like starch, oils and Production



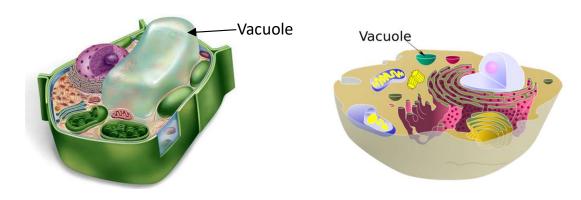






## Vacuoles:

- Vacuoles are storage sacs for solid or liquid contents.
- Vacuole is bound by a single membrane.
- They do not have any basic shape or size.
- The structure of the vacuole changes according to the need of the cell.
- Animal cells have few small sized and temporary vacuoles.
- While plant cells have one or more large vacuole.



#### Functions of vacuoles:

- Vacuoles help to maintain osmotic pressure of the cell.
- They store metabolic byprody Balance of water ucts. E.g. Glycogen, proteins and wa
- They store waste products of various it stores food so it is cal chemical reactions

  Products of various chemical reactions

  1 Firmness moeba

In plant cells vacuoles are full of cell sap and provide turgidity and rigidity to them.

