



Tip of leaf under the microscope showing the cells with the granules of leaf green.

liberated oxygen, necessary for breathing of men and animals

stigma
stamens

With sunlight and carbon dioxide from the air, water and mineral salts from the soil, the granules of leaf-green (chlorophyll), manufacture food (starch, sugar) which is carried downwards in bast vessels to be stored in fruit, to feed the flower, the roots, the whole plant.

fruit, seed store of food

The flower is the seed-producing part of a plant. When the pollen grain sticks to the stigma, the flower is pollinated and through the following fertilization the seeds in the seed box develop.

bark
slippery layer (bast)
growing layer (cambium)
autumn wood
spring wood
pith

Water and mineral salts move upwards from roots to leaves in wood vessels.

The fallen leaves are food. They give energy to the soil and build up a texture which will make the best use of rain and retain soil moisture.

leaf mould

Root tip with root hairs seen under the microscope.

air space

Soil particles surrounded by water film containing mineral salts.

Mineral salts from soil are dissolved by water and pass into cell sap.

DIAGRAMMATIC TREE: How a plant lives.