Everything about

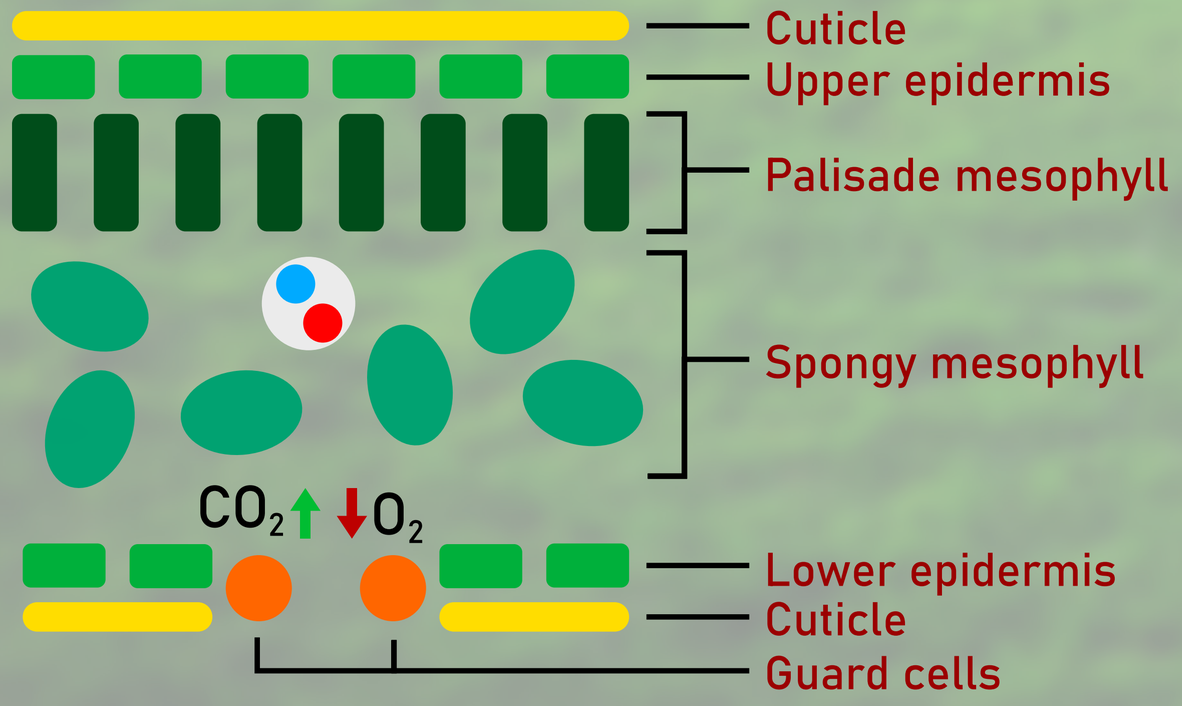
LEAVES

What's in a plant cell?

Have a look at my presentation on both plant and animal cells at bit.ly/leocells!

What's in a leaf?

Here is a diagram of the inside of a leaf.



How do leaves get energy?

To produce energy, plants need three reactants: sun, water and carbon dioxide. Water is absorbed from the ground, while CO2 is absorbed from the atmosphere through the stomata (the gap between the guard cells). Sunlight, however, is absorbed through chloroplasts (see bit.ly/leocells for a more detailed explanation) and all of these three together are then converted into two products: glucose (to keep the cell alive) and oxygen (which leaves the cell through the stomata). There are more chloroplasts on the surface of the cell so the plant can get as much sunlight as possible.

Everything about

LEAVES

How do leaves survive?

Once they have energy through photosynthesis, this is transported through the leaf through a network of veins. Leaves are thin and flat in order to allow gas exchange by diffusion and also to absorb as much light as possible. The cells in leaves are called "Palisade cells", or just plant cells. The chloroplasts in plant cells contain chlorophyll, which as well as being essential for photosynthesis, gives the plant its green colour.

Fun Fact!

The leaves of plants get smaller the higher up they are, as they do not need as much sunlight.