

Transport in Plants



We get water from the roots to the leaves, up the xylem via the **TRANSPIRATION STREAM**

Sustainable Food
E.g. for Quorn (mycoprotein) and dropping over fishing

'producing food in a way that can continue for many years'

Efficient Food
Large surface area
Short diffusion pathway
Only one cell between food and air in lungs
Good blood supply
To take dissolved products of digestion + water
To take waste products to get it from the
muscles in the blood

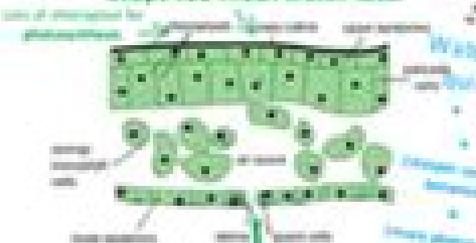
Adaptations for exchange in the intestines (absorbing your food)
Large surface area
Short diffusion pathway
Only one cell between food and air in lungs
Good blood supply
To take dissolved products of digestion + water
To take waste products to get it from the muscles in the blood



The way we use the earth's resources can have long and short term effects on the environment



Waxy cuticle - water and gas proof
Stops too much water loss.



Water is lost when it's windy or it's dry or it's hot

LUNGS
Trachea (windpipe)
Ribs
Diaphragm

Biology Unit 3

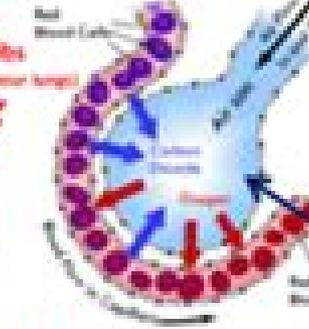
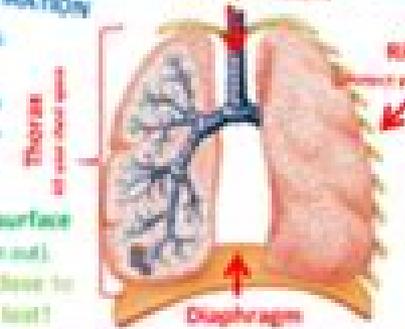
Adaptations for gaseous exchange (in your lungs)

Large surface area
Short diffusion pathway
Only one cell between food and air in lungs
Steep concentration gradient
Supply and breathing
Alveoli - Air sacs in the lungs
you have loads of these wrapped in capillaries.

Energy Drinks - For when your DEHYDRATED
Contain Water, sugar and mineral ions
Water - to rehydrate
Sugar - for energy
Minerals - to replace those lost during sweating



Leaves are thin and flat giving them a large surface area for diffusion of gases (CO₂ in and oxygen out).
Guard cells around stomata can open and close to let CO₂ in but stop too much water being lost!

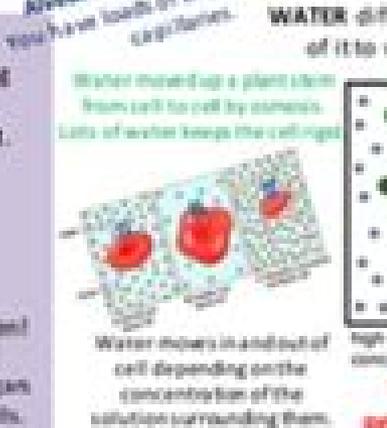


Artificial breathing
Positive pressure - pushing the air in.
Benefits: Not invasive
Can be used at home!

Negative pressure - a vacuum is created outside the body moving the chest up and causing air to be drawn in.
Benefits: Will keep you alive.
Drawbacks: Very restricting and out dated. Most stay in hospital.
The Iron Lung

| Breathing in (inhalation) |
|--|
| Diaphragm contracts flattens Intercostal muscles contract around the ribs contract - moving ribs up and out Volume of lungs increases - air moves in |
| Breathing in (exhalation) |
| Diaphragm relaxes coming up Intercostal muscles relax around the ribs relax - moving ribs down and in Volume of lungs decreases - air moves out |

Active Transport
This is when something moves against the concentration gradient.
Low to High!
It needs energy to happen!
But means ions can be absorbed from soil and sugars and salts can move into cells.



Osmosis
WATER diffusing from where it is a lot of it to where there is less of it.

High water concentration
Low water concentration
Through a partially permeable membrane.

Remember: A more concentrated substance will diffuse into less water.

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