

Transport in Plants



Water moves from the roots to the leaves, up the xylem via the **TRANSPIRATION STREAM**

Sustainable Food
E.g. Eat Quorn (mycoprotein) and stopp over fishing

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

Reduce food miles (less for food travel) = Less fuel used and less pollution

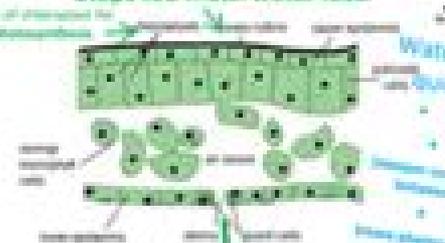
Efficient Food
'producing food in a way that energy loss and conserves biomass'

Large surface area
Short diffusion pathway
Only one cell between blood and air in lungs
Good blood supply

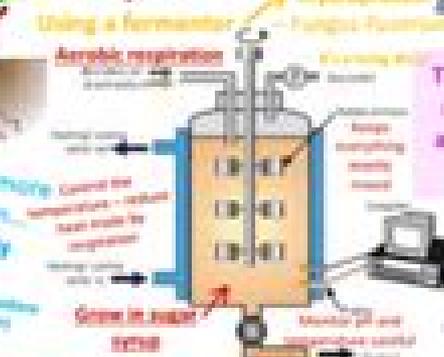
Adaptations for exchange in the intestines (absorbing your food)

villi/plicae
Created up surface of intestine for really large surface area

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



Guard cells around stomata can open and close to let CO₂ in but stop too much water being lost!



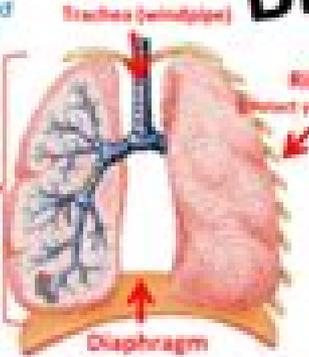
Energy lost as movement
Energy lost as heat

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



Intensive Farming
Stop energy loss by blocking movement
Keep in small enclosed spaces and keeping animals warm (keeping them inside) is this actually OK?

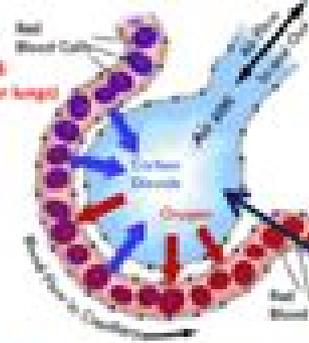
Lungs



Biology Unit 3

Adaptations for gaseous exchange (in your lungs)

- Large surface area
- Short diffusion pathway (only one cell between blood and air in lungs)
- Steep concentration gradient. Remember - a substance will move from where there's a lot to where there's a little. This is helped with good blood supply and breathing in air absorbed oxygen (carrying CO₂ in lungs) (The system is designed to absorb and release O₂)



Energy Drinks - For when your DEHYDRATED

Contain: Water, sugar and mineral ions.

Water - to rehydrate

Sugar - for energy

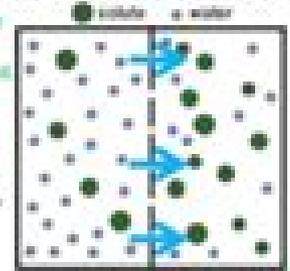
Minerals - to replace those lost during sweating.



Evidence with these levels of water power is just as good!

Osmosis

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



Through a partially permeable membrane.

Remember: A concentrated substance usually contains less water.

Artificial breathing

Positive pressure - pushing the air in.



Benefits: Not invasive (just a mask), can aid the paralysed for years and can be used during surgery. 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. Must stay in hospital (not really used anymore)



Breathing in (inhalation)

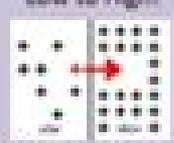
Diaphragm contracts flattens
Intercostal muscles (muscles around the ribs) contract - moving ribs up and out
Volume of lungs increases - air moves in

Breathing in (exhalation)

Diaphragm relaxes coming up
Intercostal muscles (muscles around the ribs) relax - moving ribs down and in
Volume of lungs decreases - air moves out

Active Transport

This is when some thing 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.

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A Gutmann



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