

# Transport in Plants



# 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

Energy lost as movement

Energy lost as heat

Large surface area

Short diffusion pathway

Less fuel used and less pollution

# Adaptations for exchange in the intestines

Large surface area

Short diffusion pathway

Less fuel used and less pollution

Efficient blood supply

Good blood supply

Energy lost as movement

Energy lost as heat

# 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.

Waxy cuticle - water and gas proof

Stops too much water loss.



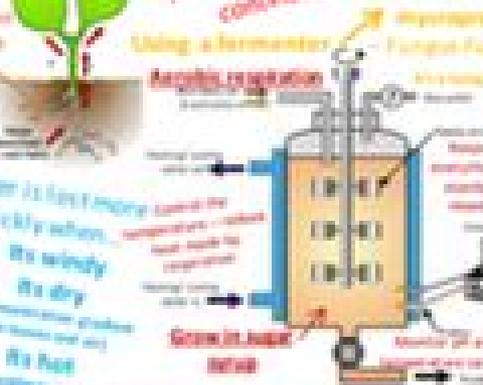
Water is lost more quickly when it's windy or it's hot

Water loss from the leaves is called **TRANSPIRATION**



Leaves are thin and flat giving them a large surface area for diffusion of gases (CO<sub>2</sub> in and oxygen out).

Guard cells around stomata can open and close to let CO<sub>2</sub> in but stop too much water being lost!



# Lungs



# Adaptations for gaseous exchange (in your lungs)

Large surface area

Short diffusion pathway

Less fuel used and less pollution

Efficient blood supply

Good blood supply

Energy lost as movement

Energy lost as heat

# Osmosis



# Artificial breathing

Positive pressure - pushing the air in.

Benefits: Not invasive (you don't need 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. Most stay in hospital, just made used anymore.

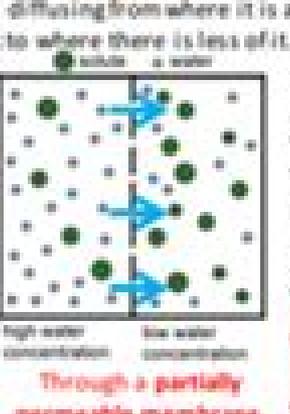
Breathing in (inhalation)
Diaphragm contracts flattens
Intercostal muscles contract around the ribs contract - moving ribs up and out
Volume of lungs increases - air moves in
Breathing in (exhalation)
Diaphragm relaxes coming up
Intercostal muscles relaxes around the ribs relax - moving ribs down and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

# Water movement in a plant stem



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

# Biology Unit 3

# As Biology Revision Notes Unit 1 Core Principles

**H Kauffman**



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