

# Transport in Plants

The phloem transports dissolved sugars to the rest of the plant from the leaves.

The xylem transports water and minerals up the plant from roots to leaves.

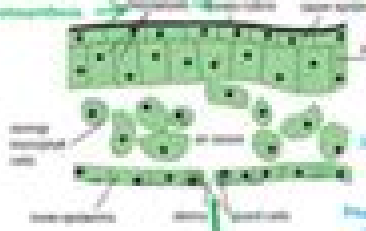
Plants also have a large surface area (provided by root hair cells) so they absorb most of the water and minerals a plant will need.



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



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



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

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

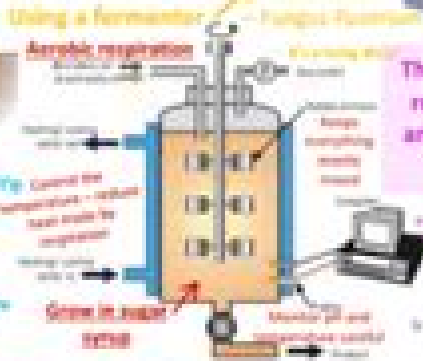


Leaves are thin and flat giving them a large surface area for diffusion of gases (CO<sub>2</sub> in and oxygen out).  
Guard cells around stomata can open and close to let CO<sub>2</sub> in but stop too much water being lost!

**Sustainable Food**  
"producing food in a way that can continue for many years"

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

Reduce food miles (move to local sources) = Less fuel used and less pollution



Energy lost as movement  
Energy lost as heat

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

## Efficient Food

Efficient food is a way that produces food in a way that is energy efficient and conserves biomass



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

## Adaptations for exchange in the intestines (absorbing your food)

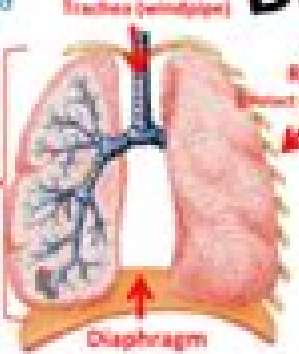


**Energy Drinks - For when your DEHYDRATED**  
Contain: Water, sugar and mineral ions.  
Water - to rehydrate  
Sugar - for energy  
Minerals - to replace those lost during sweating.



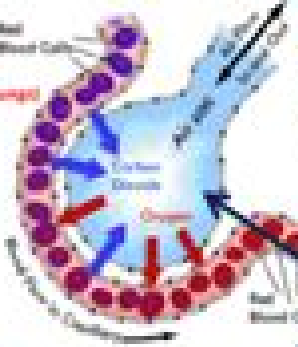
# Biology Unit 3

## Lungs



## Adaptations for gaseous exchange (in your lungs)

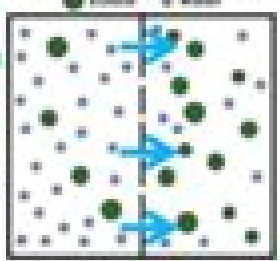
- Large surface area
- Short diffusion pathway (cells are cell between blood and air in lungs)
- Steep concentration gradient. Remember: a substance will move from where there's a lot to where there's a little. This is helped with good blood supply and breathing in air absorbed oxygen (carrying O<sub>2</sub> in lungs) / the system breathing in to absorb and release CO<sub>2</sub>



Evidence: with these levels of water there 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.

## 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)

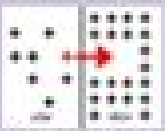
Diaphragm contracts flattens  
Intercostal muscles (muscles around the ribs) contract - moving ribs up and out  
Volume of lungs increases - air moves in

## Breathing out (exhalation)

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

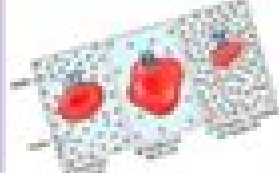
## Active Transport

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.

Water moved up a plant stem from cell to cell by osmosis. Lots of water keeps the cell turgid.



Water moves in and out of cell depending on the concentration of the solution surrounding them.

Remember: A concentrated substance usually contains less water.

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**Richard Bailey**



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