

# Transport in Plants



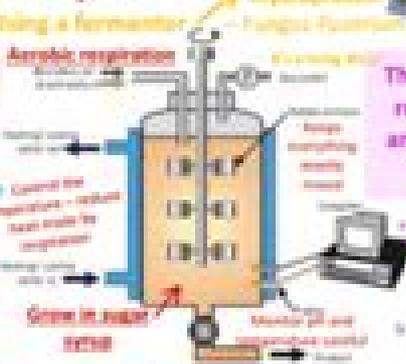
Water moves from the roots to the leaves, up the xylem via the **TRANSPIRATION STREAM**

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

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

Efficient Food  
= producing food in a way that conserves biomass

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

Intensive Farming  
Stop animals from moving  
Stop in small enclosed spaces and keeping animals warm (keeping them warm) is this actually OK?



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

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



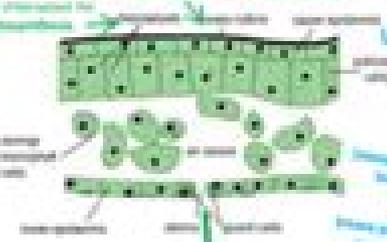
**Energy Drinks - For when your DEHYDRATED**

Contain: Water, sugar and mineral ions.

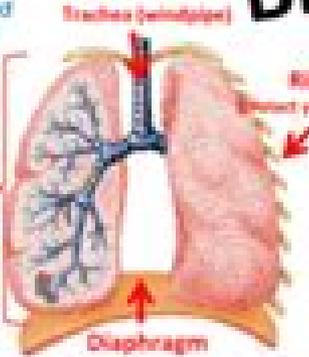
Water - to rehydrate  
Sugar - for energy  
Minerals - to replace those lost during sweating.



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



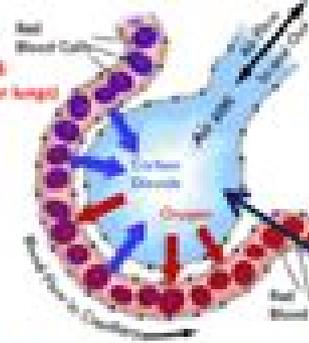
## Lungs



# Biology Unit 3

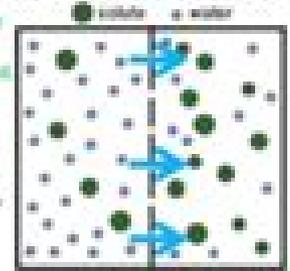
## Adaptations for gaseous exchange (in your lungs)

- 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>



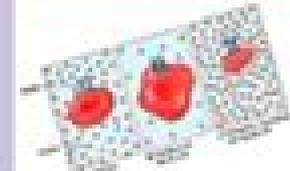
## Osmosis

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



Through a partially permeable membrane.

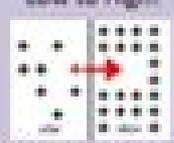
Water moved up a plant stem from cell to cell by osmosis. Lots of water keeps the cell turgid.



It needs energy to happen! But means ions can be absorbed from soil and sugars and salts can move into cells.

## 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.

## 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

## 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)



Remember: A concentrated substance always contains less water.

# Biology Unit 3 Study Guide Answers

**AW Rasmussen**



**Biology Unit 3 Study Guide Answers:**

Biology Unit 3 Study Guide Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Biology Unit 3 Study Guide Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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