

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

Adaptations for exchange in the intestines

Large surface area
Short diffusion pathway

Efficient Food: 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



Using a fermenter

Aspirin production



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



Intensive Farming: Stop energy loss by limiting movement



Energy Drinks - For when your **DEHYDRATED**



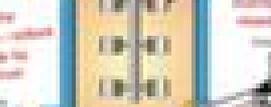
CO₂ enters leaf by diffusion



Water leaves leaf by evaporation



LUNGS



Adaptations for gaseous exchange (in your lungs)



Large surface area
Short diffusion pathway



Contains water, sugar and mineral ions



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!



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



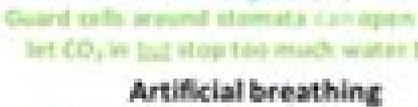
Artificial breathing

Positive pressure - pushing the air in.



Benefits: Not invasive (you're not cut), 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.

Volume of lungs increases - air moves in



Volume of lungs decreases - air moves out



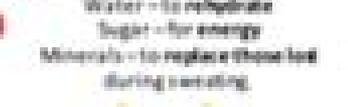
Water moves up a plant stem from cell to cell by osmosis. Lots of water keeps the cell turgid



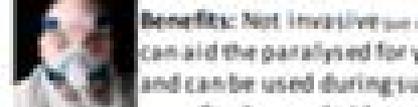
Water moves in and out of cell depending on the concentration of the solution surrounding them.



Through a partially permeable membrane.



Volume of lungs increases - air moves in



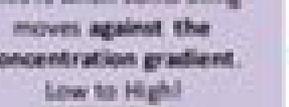
Volume of lungs decreases - air moves out



Volume of lungs increases - air moves in



Volume of lungs decreases - air moves out



Volume of lungs increases - air moves in



Volume of lungs decreases - air moves out



Volume of lungs increases - air moves in



Volume of lungs decreases - air moves out



Volume of lungs increases - air moves in



Volume of lungs decreases - air moves out



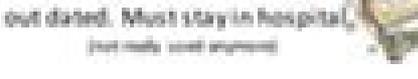
Volume of lungs increases - air moves in



Volume of lungs decreases - air moves out



Volume of lungs increases - air moves in



Volume of lungs decreases - air moves out



Volume of lungs increases - air moves in



Volume of lungs decreases - air moves out



Volume of lungs increases - air moves in



Volume of lungs decreases - air moves out



Biology Unit 3

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

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Table of Contents As Biology Revision Notes Unit 1 Core Principles

1. Understanding the eBook As Biology Revision Notes Unit 1 Core Principles
 - The Rise of Digital Reading As Biology Revision Notes Unit 1 Core Principles
 - Advantages of eBooks Over Traditional Books
2. Identifying As Biology Revision Notes Unit 1 Core Principles
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an As Biology Revision Notes Unit 1 Core Principles
 - User-Friendly Interface
4. Exploring eBook Recommendations from As Biology Revision Notes Unit 1 Core Principles
 - Personalized Recommendations
 - As Biology Revision Notes Unit 1 Core Principles User Reviews and Ratings
 - As Biology Revision Notes Unit 1 Core Principles and Bestseller Lists
5. Accessing As Biology Revision Notes Unit 1 Core Principles Free and Paid eBooks
 - As Biology Revision Notes Unit 1 Core Principles Public Domain eBooks
 - As Biology Revision Notes Unit 1 Core Principles eBook Subscription Services
 - As Biology Revision Notes Unit 1 Core Principles Budget-Friendly Options
6. Navigating As Biology Revision Notes Unit 1 Core Principles eBook Formats
 - ePub, PDF, MOBI, and More
 - As Biology Revision Notes Unit 1 Core Principles Compatibility with Devices
 - As Biology Revision Notes Unit 1 Core Principles Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of As Biology Revision Notes Unit 1 Core Principles
 - Highlighting and Note-Taking As Biology Revision Notes Unit 1 Core Principles
 - Interactive Elements As Biology Revision Notes Unit 1 Core Principles

8. Staying Engaged with As Biology Revision Notes Unit 1 Core Principles
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers As Biology Revision Notes Unit 1 Core Principles
9. Balancing eBooks and Physical Books As Biology Revision Notes Unit 1 Core Principles
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection As Biology Revision Notes Unit 1 Core Principles
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine As Biology Revision Notes Unit 1 Core Principles
 - Setting Reading Goals As Biology Revision Notes Unit 1 Core Principles
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of As Biology Revision Notes Unit 1 Core Principles
 - Fact-Checking eBook Content of As Biology Revision Notes Unit 1 Core Principles
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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