

GCSE BIOLOGY

study notes

MOVEMENT OF SUBSTANCES INTO AND OUT OF CELLS

DIFFUSION

Diffusion = net movement of particles from high to low concentration
Diffusion = passive, no energy required, result of random movement
Concentration gradient = difference in concentration

Increasing diffusion rate = steeper gradient, larger rate cells, small size

OSMOSIS

Osmosis = the diffusion of water molecules across partially permeable membrane from high to low concentration (water)

Isotonic = same water concentration in solution on both sides
Hypertonic = hypertonic solution has higher water concentration
Hypotonic = hypotonic solution has lower water concentration
Rough = high internal water pressure, pushes against cell wall of plant cells
Turgid = plant cell when a vacuole has to the outside movement
Plasmolysed = when cells lose water through osmosis

ACTIVE TRANSPORT

Active transport = when particles move against a concentration gradient
Energy enters in the cell membrane push up particles and move them
The cell membrane against concentration gradient using ATP

FACTOIDS

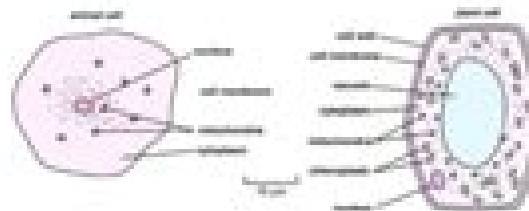
Diffusion

Not living system

Diffusion occurs in all living and non-living systems

CELL STRUCTURE

CELL ORGANELLES



Organelles = subcellular structures in cells

Cytoplasm

Where chemical reactions take place

Living, jelly-like material, supports organelles

Contains enzymes, water and solutes

Nucleus

Contains genetic information of a cell

Enclosed in a nuclear membrane, contains chromosomes

Control the activity in cells by determining the proteins produced

Level 9 achieved!

THE ORGANISM IN THE ENVIRONMENT

Organisms interact with their physical, chemical and biological environment
Study of organisms and the environment interacting as a system
All part of an ecosystem

Community = all the organisms living in the same area at the same time
Populations of different species living and interacting in the same area
Ecosystem = all the organisms living in a particular place

POPULATION

Group of individuals of the same species living in the same area

Can be found in a large area

Can

Can

Can

Factors that affect the size and distribution of populations

Can

Can be found in a large area

Population = all the individuals of the same species living in the same area

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Igcse Biology Study Notes

Tobias Bleicker



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Table of Contents Igcse Biology Study Notes

1. Understanding the eBook Igcse Biology Study Notes
 - The Rise of Digital Reading Igcse Biology Study Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Biology Study Notes
 - 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 Igcse Biology Study Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Biology Study Notes
 - Personalized Recommendations
 - Igcse Biology Study Notes User Reviews and Ratings
 - Igcse Biology Study Notes and Bestseller Lists
5. Accessing Igcse Biology Study Notes Free and Paid eBooks
 - Igcse Biology Study Notes Public Domain eBooks
 - Igcse Biology Study Notes eBook Subscription Services
 - Igcse Biology Study Notes Budget-Friendly Options

6. Navigating Igcse Biology Study Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Igcse Biology Study Notes Compatibility with Devices
 - Igcse Biology Study Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Igcse Biology Study Notes
 - Highlighting and Note-Taking Igcse Biology Study Notes
 - Interactive Elements Igcse Biology Study Notes
8. Staying Engaged with Igcse Biology Study Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Igcse Biology Study Notes
9. Balancing eBooks and Physical Books Igcse Biology Study Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Igcse Biology Study Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Igcse Biology Study Notes
 - Setting Reading Goals Igcse Biology Study Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Igcse Biology Study Notes
 - Fact-Checking eBook Content of Igcse Biology Study Notes
 - 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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