

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 = steep gradient, large surface area, small distance

OSMOSIS

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

Isotonic = same water concentration in solution on both sides
Hypertonic = hypertonic solution has a higher water concentration
Hypotonic = hypotonic solution has a lower water concentration
Rough = high internal water pressure, pushes against cell wall of plant cells
Bursts / lysis = when a cell bursts due to the osmotic pressure
Plasmolysed = when cells lose water through osmosis

ACTIVE TRANSPORT

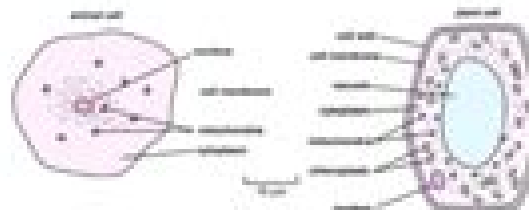
Active transport = when particles move against a concentration gradient
Energy enters in the cell membrane, gets up particles and moves them
The cell membrane against concentration gradient using ATP

FACTOIDS

Diffusion

Not living system

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

Interactions between organisms & their physical, chemical environment
Study of organisms and the environment interacting as a system
As part of an ecosystem

Communities of the same species, living in the same area at the same time
Communities of different species living and interacting in the same area
and in which organisms live in association of each other in a stable form

POPULATION

Group of individuals that can affect the size and distribution of population

Can be found in larger levels

Genes

Chromosomes

DNA

Organisms that affect the size and distribution of populations

Size

Can feed, waste and shelter

Population ecology is the study of organisms in relation to their abundance

Species richness of area

Can be found in larger levels and can affect the number of organisms

Can be found in larger levels and can affect the number of organisms

Igcse Biology Study Notes

Rob Toplis



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