

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 water-filled vacuole is the central vacuole
Plasmolysed = when cells lose water through osmosis

ACTIVE TRANSPORT

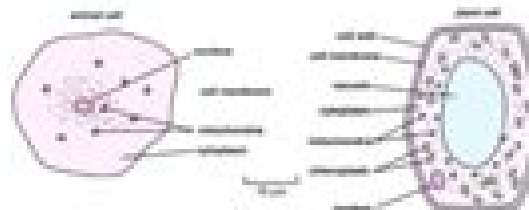
Active transport = when particles move against a concentration gradient
Energy enters in the cell membrane and is used to pump molecules
The cell membrane against concentration gradient using ATP

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
All part of an ecosystem

Communities of the same species, living in the same area at the same time
Populations of different species living and interacting in the same area
In which organisms live, accumulation of matter & energy flows

POPULATION

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

Can be finite or infinite

Age

Sex

Size

Factors that affect the size and distribution of populations

Birth

Death

Population density = number of organisms / distribution and abundance

Species richness of area

Population density = number of organisms / area

Population density = number of organisms / area

Igcse Biology Study Notes

Arshad Iqbal



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