

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 cells

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 walls of plants
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

FACTOALS

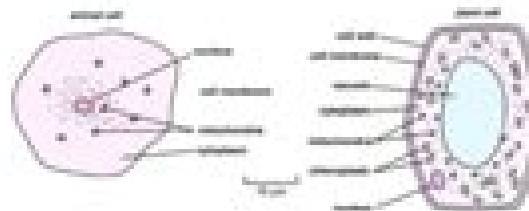
Diffusion

Not using energy

Small molecules (sugars, amino acids) move from high to low concentration

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 = the same species, living in the same area at the same time
Ecosystem = different species living and interacting in the same area
Biosphere = the whole planet, the combination of all ecosystems

POPULATION

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

Can be found in larger levels

Genes

Chromosomes

DNA

Factors that affect the size and distribution of populations

Abundance

Can be found in smaller levels

Abundance = the number of organisms in a given area

Relative abundance

Relative abundance = the number of organisms in a given area

Relative abundance = the number of organisms in a given area

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