

# 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  
Rugel = 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

#### FACTOALS

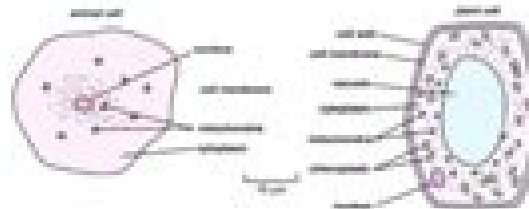
Diffusion

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  
A 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, a combination of biotic and abiotic factors

#### POPULATION

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

Can be found in larger areas

Can

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# Igcse Biology Study Notes

**Arshad Iqbal**



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## Adopting the Beat of Term: An Psychological Symphony within **Igcse Biology Study Notes**

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