

Edexcel Biology GCSE

Topics 1.15 to 1.17 - Cell transport

Flashcards



What is simple diffusion?



What is simple diffusion?

The net movement of molecules from an area of high concentration to an area of low concentration down a concentration gradient



What molecules enter and leave cells via simple diffusion through the cell membrane?



What molecules enter and leave cells via simple diffusion through the cell membrane?

Small molecules e.g. oxygen, water, glucose, amino acids



What factors affect the rate of diffusion?
(3)



What factors affect the rate of diffusion? (3)

- Temperature
- Concentration gradient
- Surface area of cell membrane



Define osmosis



Define osmosis

The net movement of water molecules from an area of high water concentration to an area of low water concentration through a partially permeable membrane



What is active transport?



What is active transport?

The movement of molecules across a cell membrane from an area of low concentration to an area of high concentration, against the concentration gradient, using energy



How is a percentage change in mass calculated?



How is a percentage change in mass calculated?

$$\% \text{ change} = \frac{\text{final mass} - \text{initial mass}}{\text{initial mass}} \times 100$$

