

Edexcel Biology GCSE

Topics 1.15 to 1.17 - Cell transport

Flashcards

What is simple diffusion?

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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)

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- Temperature
- Concentration gradient
- Surface area of cell membrane

Define osmosis

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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?

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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?

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