

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?

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