Movement of Molecules

Highlight key words in the question below:

Diffusion is the movement of a substance from an area of high concentration to an area of low concentration. Diffusion happens in liquids and gases because their particles move randomly from place to place. Diffusion is an important process for living things; it is how substances move in and out of cells. Specification Link: Cell Biology



Describe how the rate of diffusion across a membrane can be increased:

Give examples of molecules that diffuse across cell membranes:

Describe facilitated diffusion:

In cellular biology, active transport is the movement of molecules across a membrane from a region of their lower concentration to a region of their higher concentration—against the concentration gradient. Active transport requires cellular energy to achieve this movement.



Cell

Membrane

What is active transport?

Where in the body does active transport occur?

Osmosis is the spontaneous net movement of solvent molecules through a selectively permeable membrane into a region of higher solute concentration, in the direction that tends to equalize the solute concentrations on the two sides.

Describe what osmosis is and the effect changing water concentration has on it's rate

