



B2 Cell transport

Comparing diffusion, osmosis, and active transport

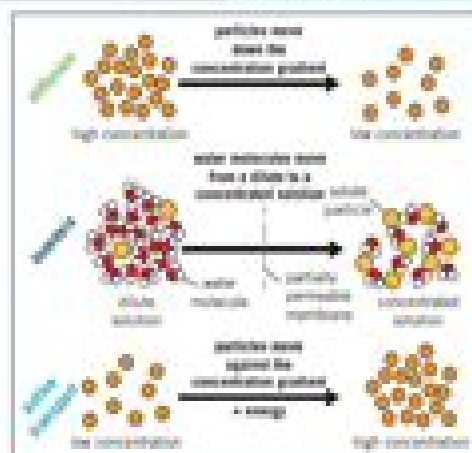
Diffusion	Osmosis	Active transport
The spreading out of particles, resulting in a net movement from an area of higher concentration to an area of lower concentration.	The diffusion of water from a dilute solution to a concentrated solution through a partially permeable membrane .	The movement of particles from a more dilute solution to a more concentrated solution using energy from respiration.
Particles move down the concentration gradient - from an area of high concentration to an area of low concentration.	Water moves from an area of lower solute concentration to an area of higher solute concentration.	Particles move against the concentration gradient - from an area of low concentration to an area of high concentration.
no - passive process	no - passive process	yes - using energy released during respiration
Humans - Nutrients in the small intestine diffuse into the blood in the capillaries through the villi. - Oxygen diffuses from the air in the alveoli into the blood in the capillaries. Carbon dioxide diffuses from the blood in the capillaries into the air in the alveoli. - Urea diffuses from cells into the blood for excretion by the kidneys.	Plants Water moves by osmosis from a dilute solution in the soil to a concentrated solution in the root hair cell .	Humans Active transport allows sugar molecules to be absorbed from the small intestine where the sugar concentration is higher in the blood than in the small intestine. Plants Active transport is used to absorb mineral ions into the root hair cells from more dilute solutions in the soil.

Fish

- Oxygen from water passing over the gills diffuses into the blood in the **gill filaments**.
- Carbon dioxide diffuses from the blood in the gill filaments into the water.

Plants

- Carbon dioxide used for photosynthesis diffuses into leaves through the **stomata**.
- Oxygen produced during photosynthesis diffuses out of the leaves through the stomata.



Factors that affect the rate of diffusion

- Difference in concentration**
The steeper the concentration gradient, the faster the rate of diffusion.
- Temperature**
The higher the temperature, the faster the rate of diffusion.
- Surface area of the membrane**
The larger the membrane surface area, the faster the rate of diffusion.

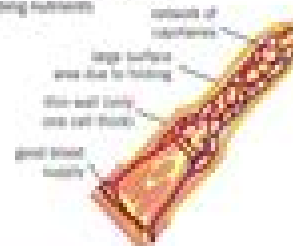
Adaptations for exchanging substances

Single-celled organisms have a large surface area to volume ratio. This allows enough molecules to be transported across their cell membranes to meet their needs.

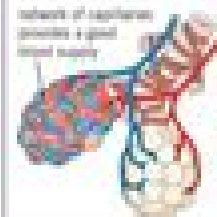
Multicellular organisms have a small surface area to volume ratio. This means they need specialised organ systems and cells to allow enough molecules to be transported into and out of their cells.

Exchange surfaces work most efficiently when they have a large surface area, a thin membrane, and a good blood supply.

Villi in the small intestine for absorbing nutrients



Alveoli in the lungs for gas exchange



The rate of diffusion is increased because the membranes of the alveoli:
 • have a large surface area
 • are moist
 • are only one cell thick (short diffusion pathway).

Fish gills for gas exchange

- Fish gills are made up of stacks of thin filaments with:
 • a large surface area to increase diffusion
 • a network of capillaries (good blood supply).



Root hair cells for uptake of water and minerals

lots of mitochondria to take in mineral ions by active transport



Key terms

Make sure you can write a definition for these key terms.

active transport	alveoli	capillaries	concentration	diffusion	dilute
gill filaments	gradient	osmosis	partially permeable membrane	urea	villi
passive processes	root hair cell	stomata			

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