Transport in and out of cells

Calls must take in yearly substances like glucose and saygen for respiration. and remove waste substances such as carbon dicaids and unea. Calls must also control how much water they contain. The cells use three transport processes to do that diffusion, eamosis and active transport.

Official

Particles move around randomly. They bump into each other and this moves them all around.



Diffusion is the net movement of particles from an area of high concentration to an area of low concentration down a concentration gradient.

* Use the disprain to the left to help you remember this important definition?

Factors that affact the rate of diffusion include:

Temperature	An increase in temperature causes particles to
	move around more quickly and increases the
	rate of diffusion.

Southern Area

The bloom the offerent The difference concentration

Pers

If the diffusion surface has folds in it then 34" a larger surface area over which giffer take place. This increases then

nowledg

actions in the diffusion of water molecules from a dilute solution to a concentrated solution accoss a partially permeable membrane.













Exchanging substances if your big

Large multicellular propriems (anything bigger than a worm) even't able to get the nutrients they need just by diffusion. from their surroundings because they have a small surface area to volume natio. Instead, they have adaptations to increase the rate of diffusion. Exchange surfaces (like the lungs, the intestines and gifts in fish) heyaadaptations to increase diffusion. They normally have:

- A large surface area
- A thin membrane (to provide a short diffu
- Having an afficient blood supply
- Are well ventilated (animal lugger

You will leave about space. of these in 83 and 61



ganiser and transport moves edistances from an area of low concentration to an area of his concentration against a concentration gradient. It requires energy from respiration.

Active transport allows:

- mineral long to be absorbed into stant root. hairs from yary dilute (low concentration) solutions in the soil. Plants require long for
- pluriose molecules to be absorbed from the lower concentrations in the gut into the blood which has a higher glucose. concentration.

This is achieved by special 'protein pumps' found in the cell membranes.



Osmosis in Plant cells:



This is what happens at the microscopic level of the cells, but you can do lab experiments with whole tissues, such as in this topic's osmosis required practical. involving whole potato chios.

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Jianjun Gao

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