

# Cellular Processes

a cell must carry out processes and take in substances (food) to stay alive.

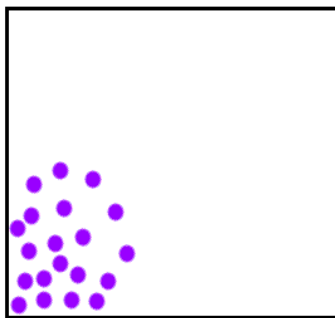
how do things move into and out of the cell?

recall what organelle is the sifter and decides what moves in and out?

The Cell membrane

- it has tiny holes in it and depending on the size and shape of the holes only certain substances will pass through.

i.e. if a substance is too big it will not pass through.



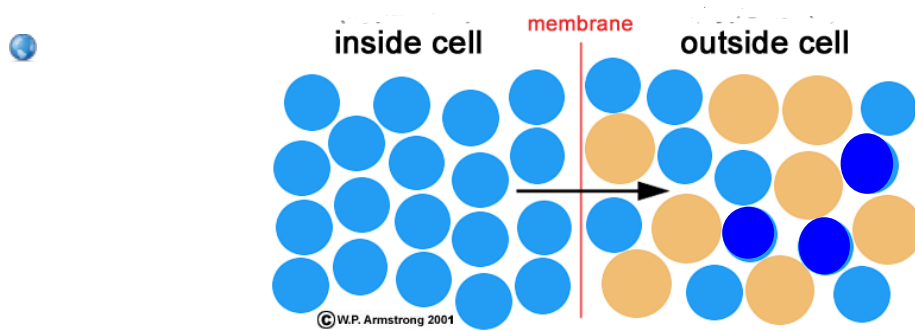
## Diffusion

**Diffusion can be explained by the movement of molecules from an area where they are crowded ( higher concentration) to areas where they are less crowded (lower concentration) until they are evenly distributed (the same on both sides).**

**The cytoplasm and the endoplasmic reticulum help molecules diffuse.**

Animation 's

# Osmosis

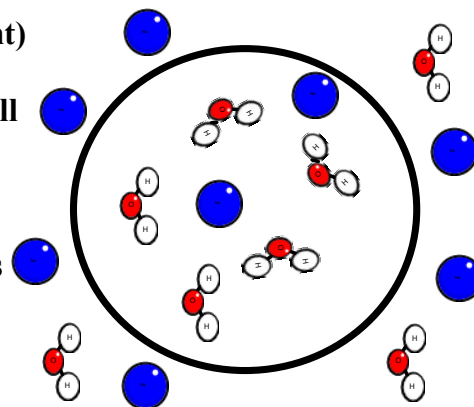


the diffusion of water through the membrane.

Water will pass from an area where water molecules are crowded to an area where they are not crowded. It will move to help even out the concentrations of various molecules inside and outside the cell

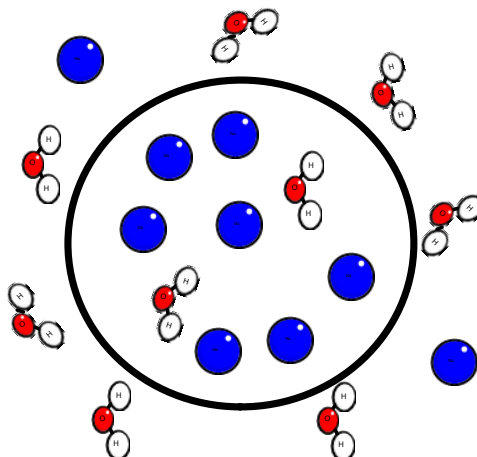
If the concentration (amount) of minerals and salts is **HIGHER OUTSIDE** the cell than inside, water moves **OUT** of the cell.

Cells tend to shrink in this solution.



If the concentration (amount) of minerals and salts is **HIGHER INSIDE** the cell than outside, water moves **INTO** the cell.

Cells expand in this solution.



## Attachments

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Cellular Processes Senteo Quiz.notebook