Chapter 4-1

You should be able to answer these questions.

Distinguish between polar and non-polar molecules.

Identify different kinds of cell-membrane proteins.

Summarize the function of the Golgi.

ATP- main energy current of cells

When carbs and fats are broken down they are stored temporairly as ATP.

car : gas

flashlight : batteries

cell : ATP

Homeostasis-

state of being content

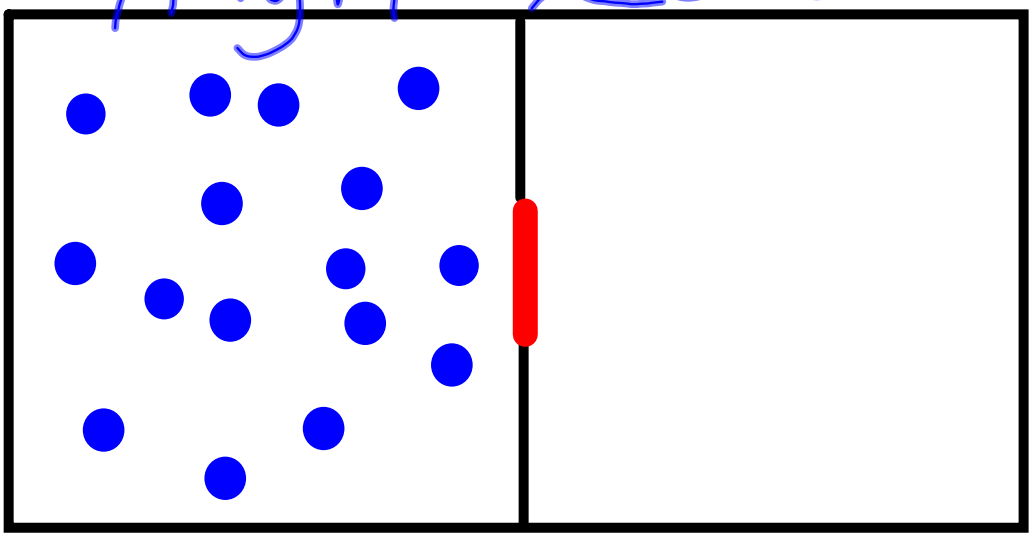
Cell must use energy to move some things across the cell membrane and other times no energy is required.

Passive transport – Sending e-mail

Active transport – Sending letter

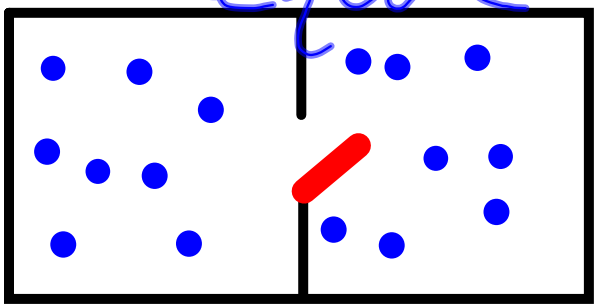
Passive Transport

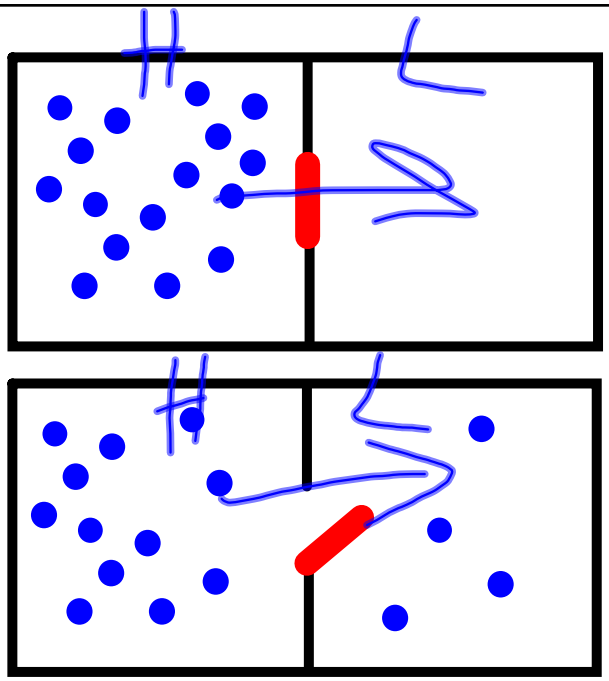
High → Low



Video

Concentration gradient- a difference in the concentration of a substance

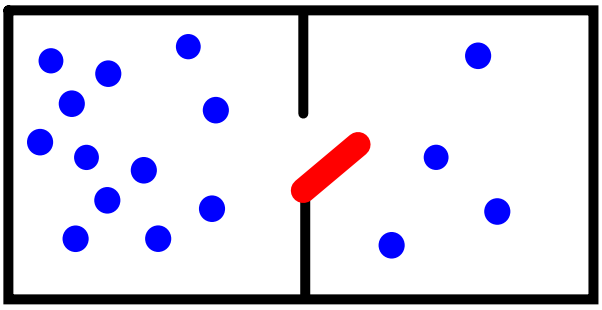




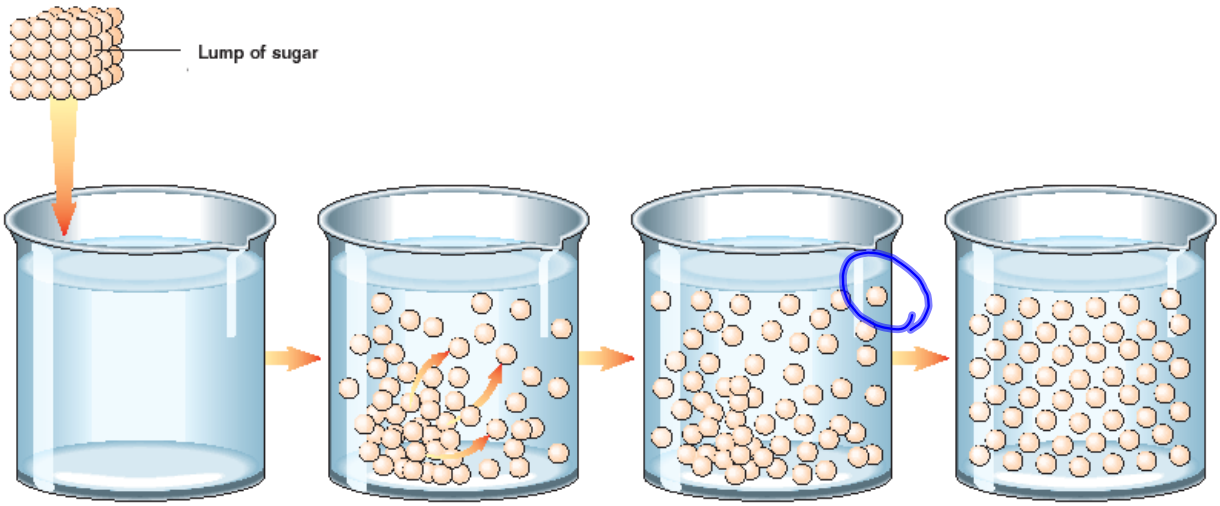
Video

Equilibrium- when the Concentration of a substance is equal throughout a space

Diffusion- the movement of a substance from an area of higher concentration to an area of lower concentration caused by the random movement of particles



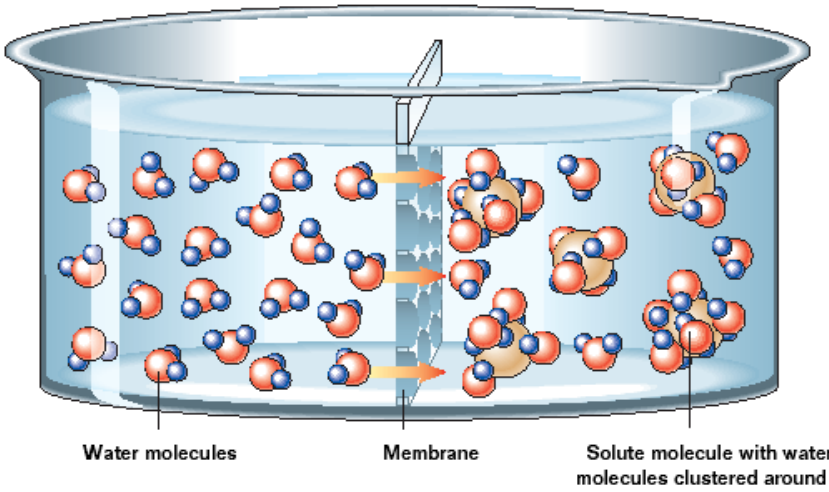
Beaker with water



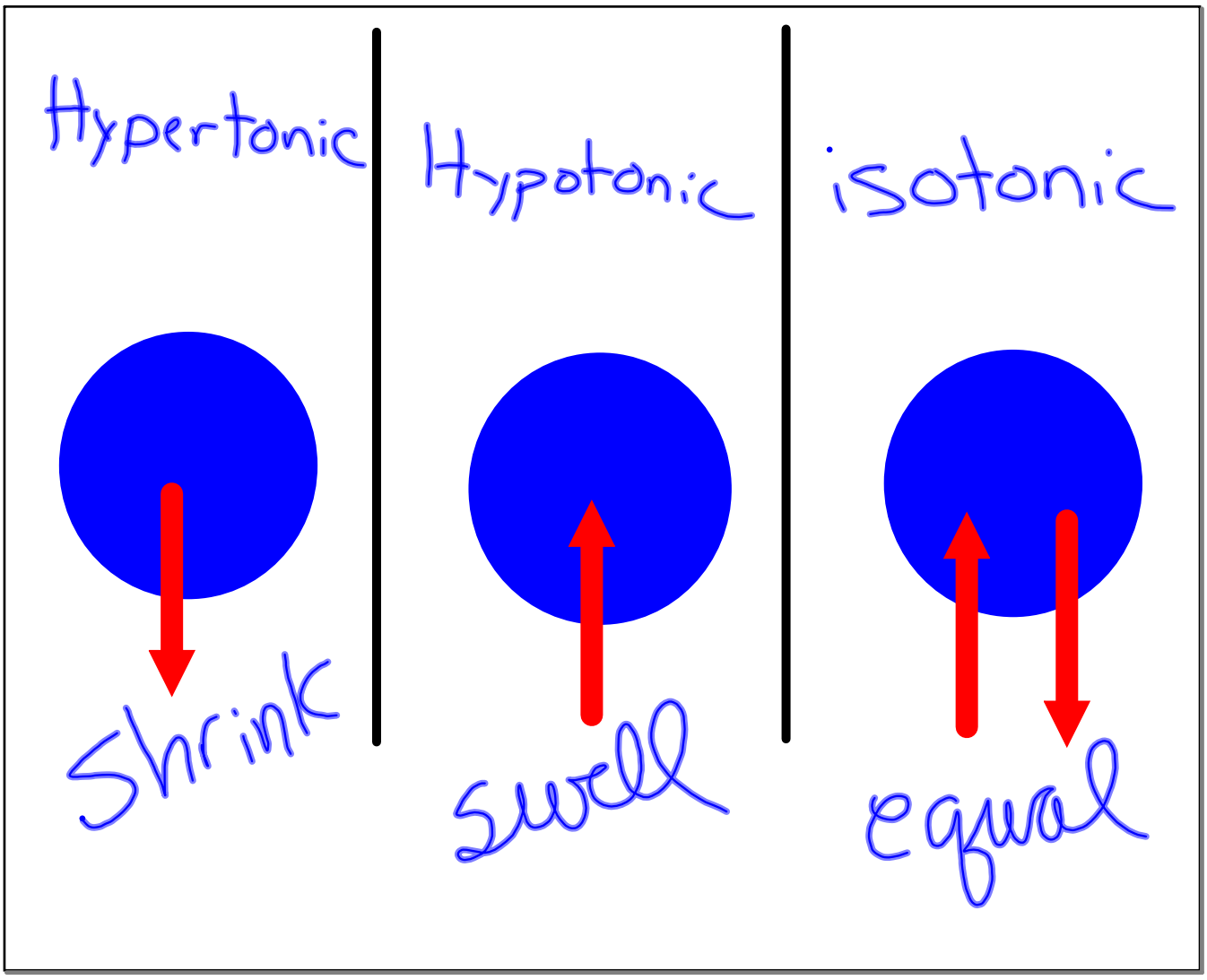
BIOSOURCES
TEACHING TRANSPARENCIES

Osmosis- diffusion of water molecules

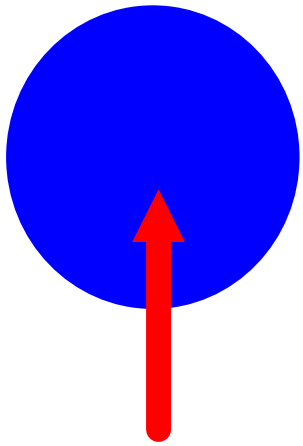
Why do you gargle with salt water for a sore throat?

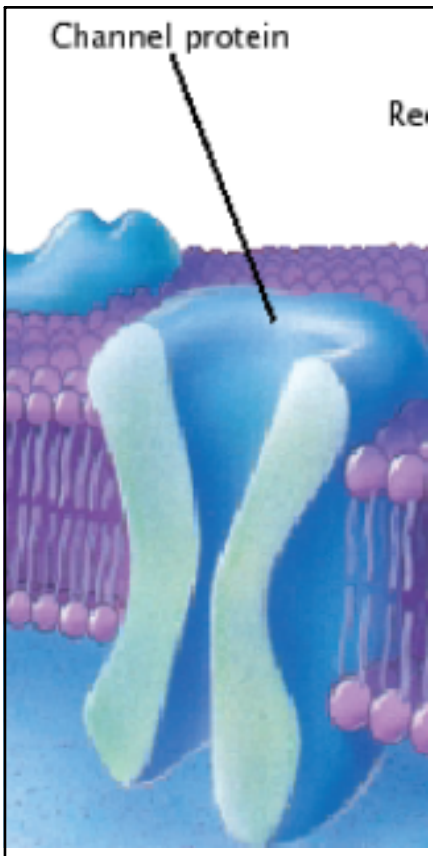


BIOSOURCES
TEACHING TRANSPARENCIES

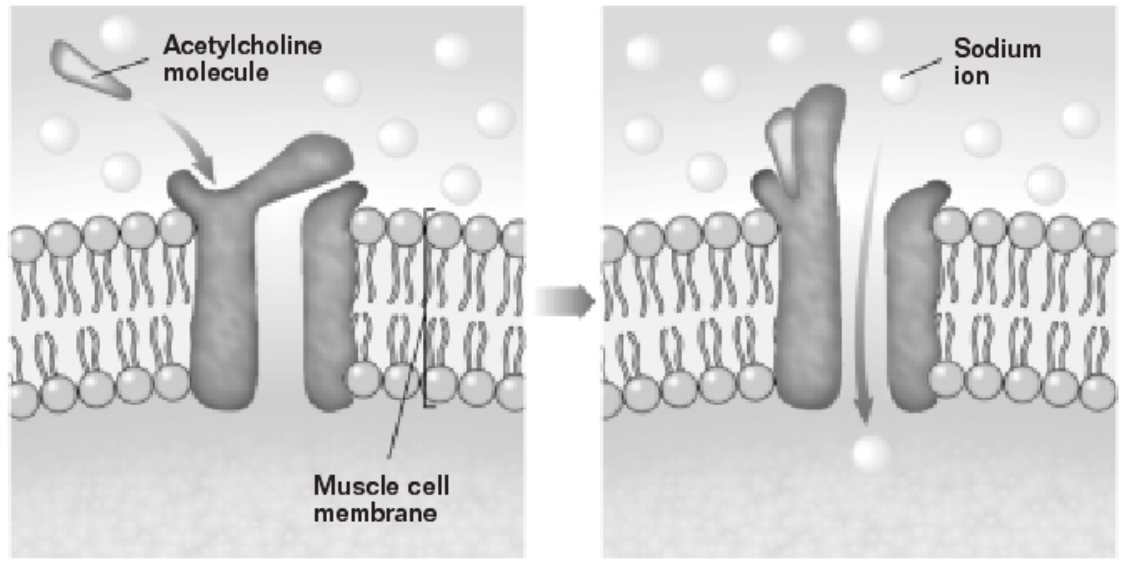

Hypertonic
Hypotonic
isotonic
shrink
swell
equal

If left unchecked, this could cause a cell to burst.



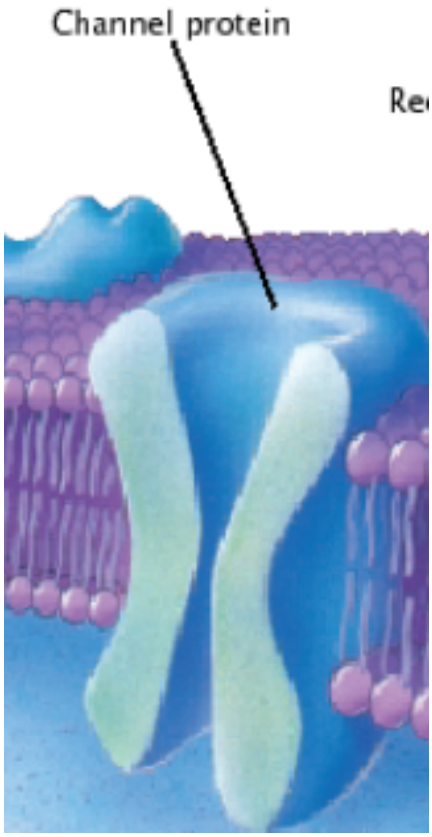


Other wise known as a transport Protein helps the movement of substances into and out of the cell.



Ion Channel

BIOSOURCES
TRANSPARENCY MASTER



Faciliated Diffusion a type of passive transport because it moves substances down their concentration gradient without using the cell's energy