

# 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.

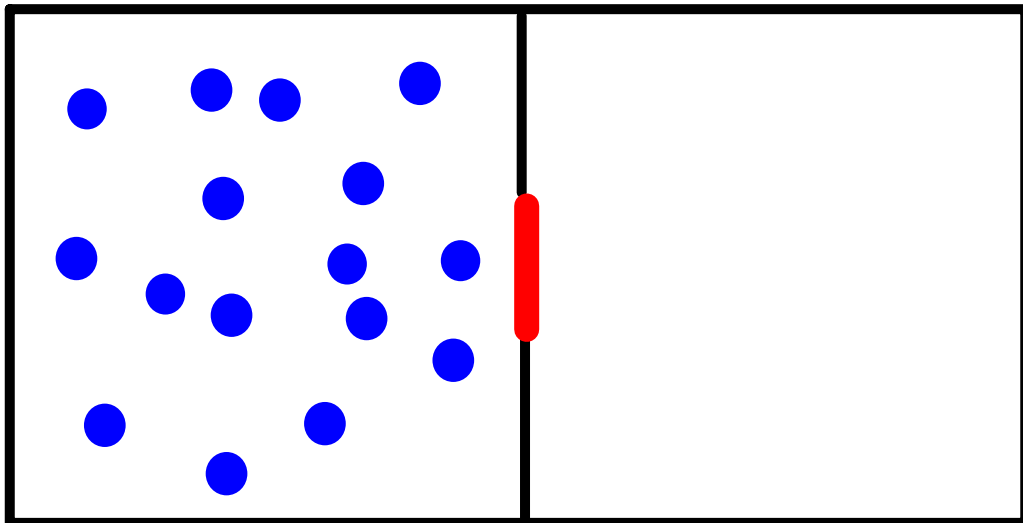
ATP- main energy current  
of cells

When \_\_\_\_\_ and \_\_\_\_\_ are  
broken down they are stored  
\_\_\_\_\_ as ATP.

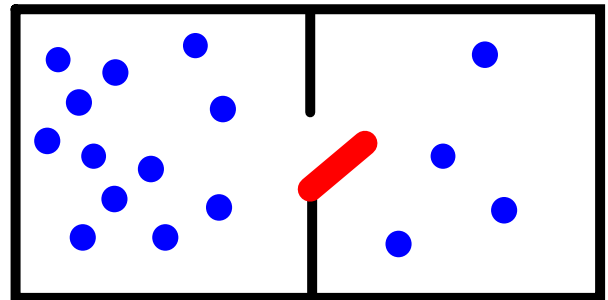
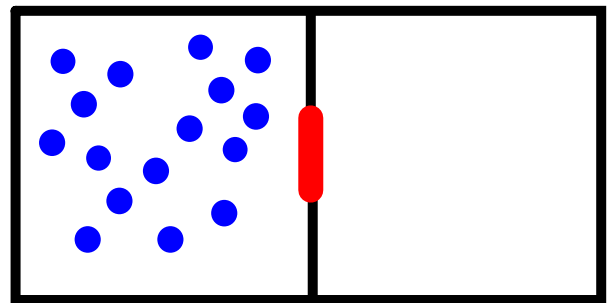
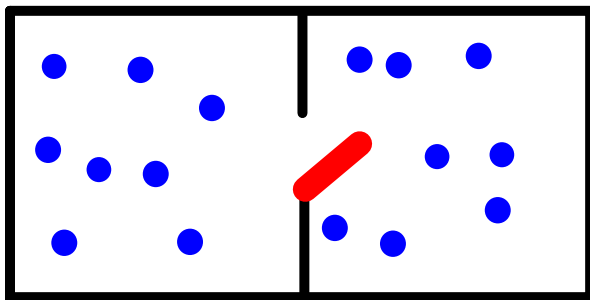
Homeostasis-

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

## Passive \_\_\_\_\_



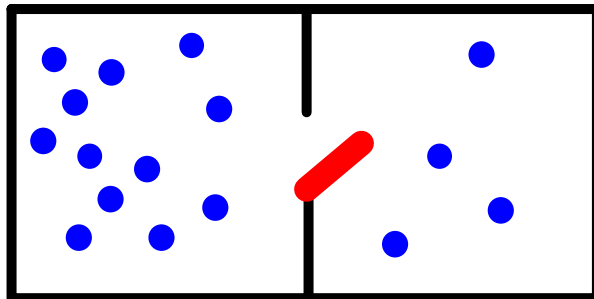
Concentration  
gradient- a  
d\_\_\_\_\_ in the  
concentration of a



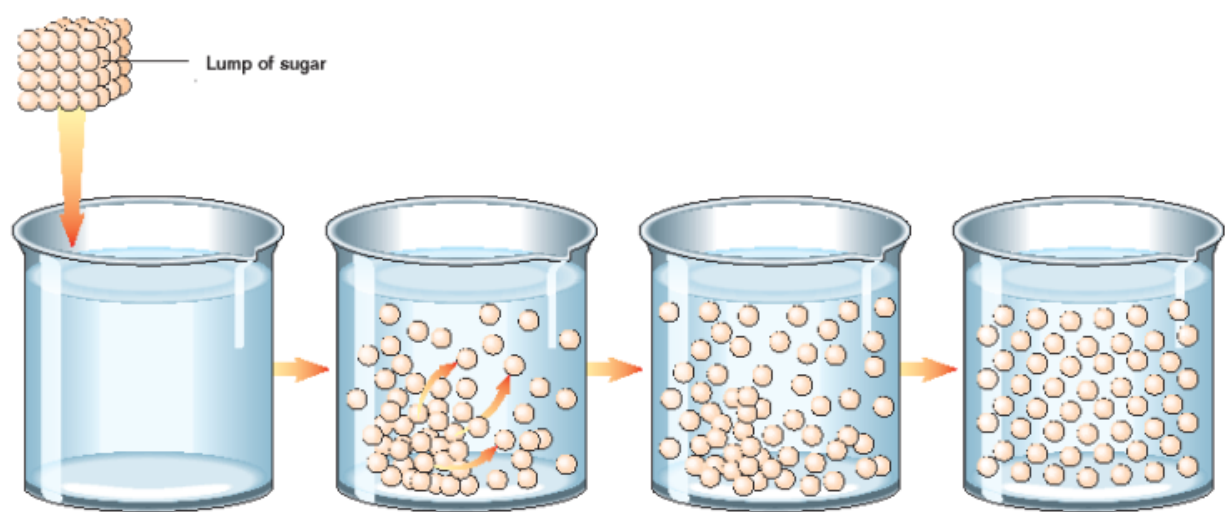
Equilibrium- when the  
\_\_\_\_\_ of a  
substance is  
\_\_\_\_\_ throughout a  
space



Diffusion- the movement of a substance from an area of \_\_\_\_\_ concentration to an area of \_\_\_\_\_ concentration caused by the \_\_\_\_\_ of particles



Beaker with water



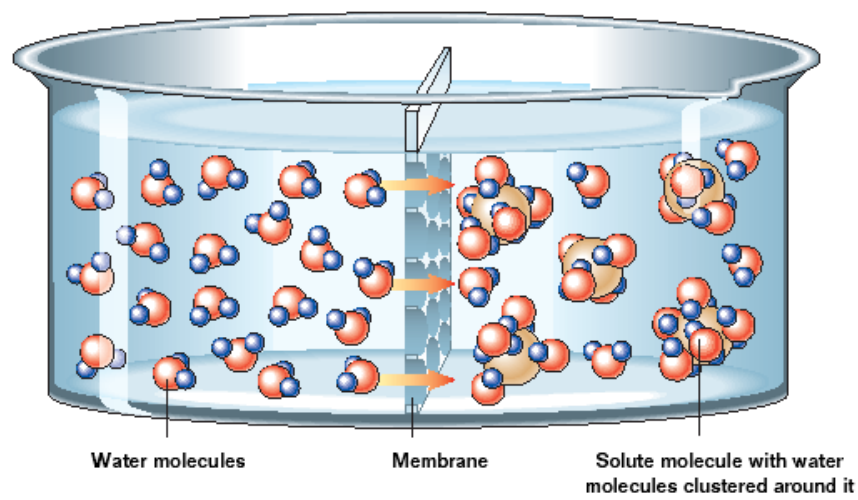
**BIO SOURCES**  
TEACHING TRANSPARENCIES

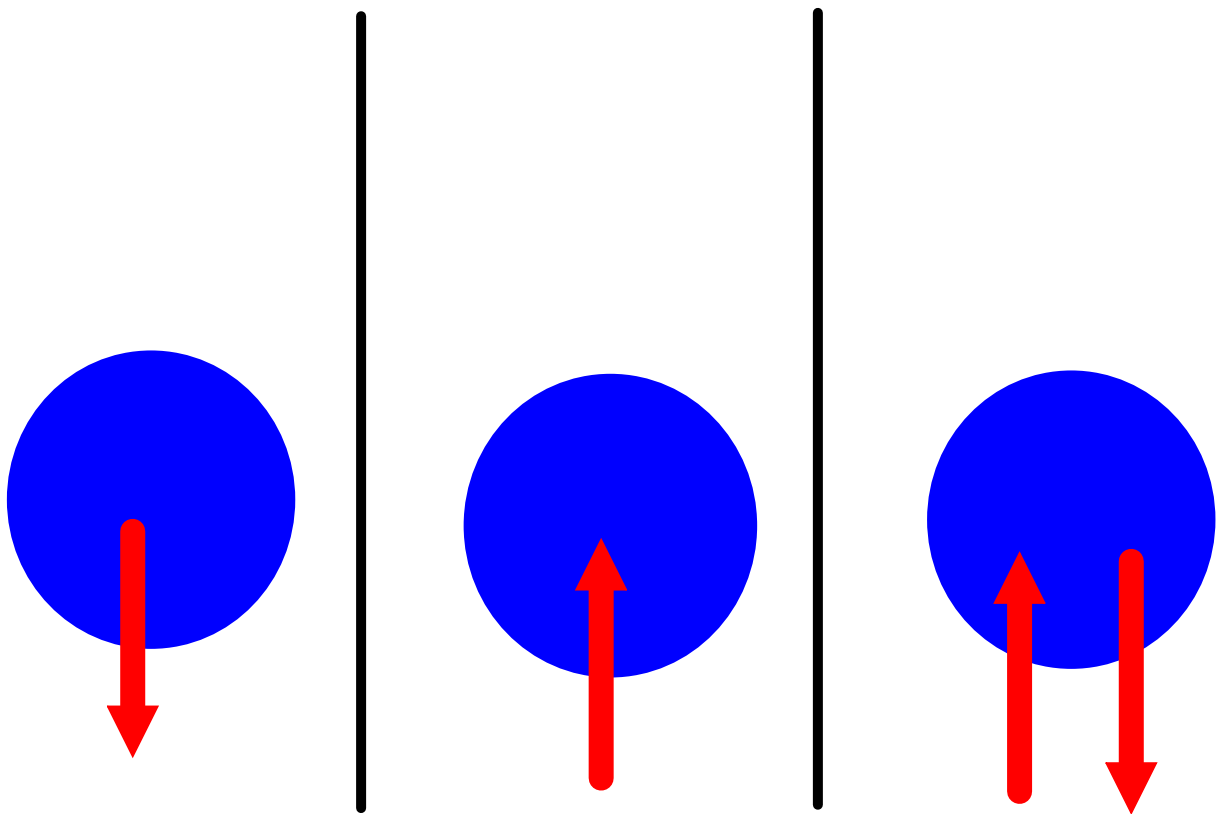
## Osmosis- diffusion of                      molecules

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

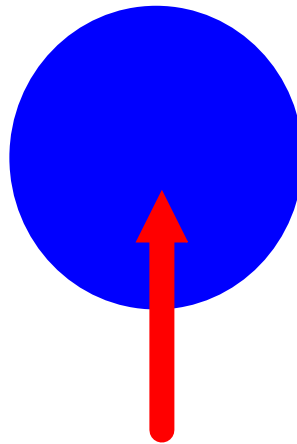


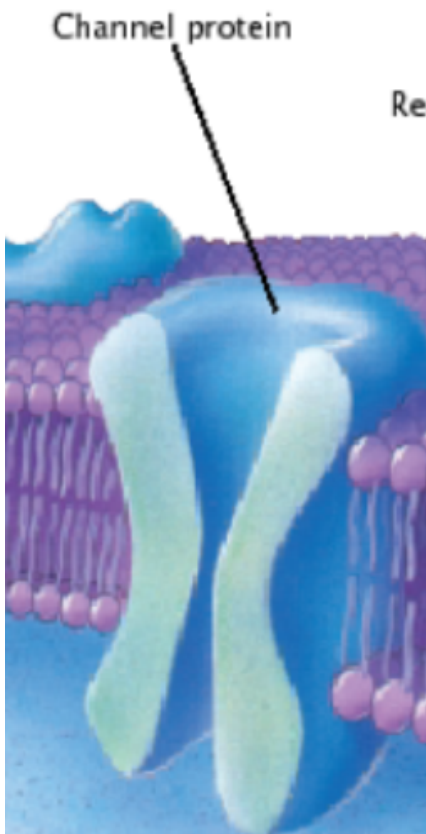
Video





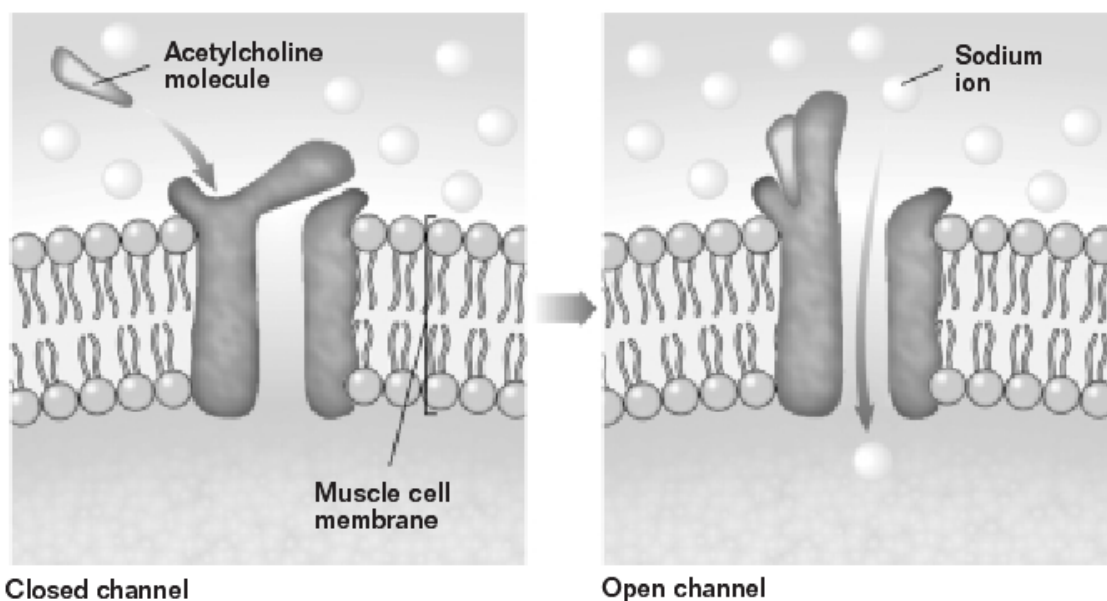
If left unchecked,  
this could cause a  
cell to \_\_\_\_\_.





**BIO SOURCES**  
TEACHING TRANSPARENCIES

Other wise  
known as a  
transport  
\_\_\_\_\_helps the  
movement of  
substances \_\_\_\_\_  
and \_\_\_\_\_ of  
the cell.



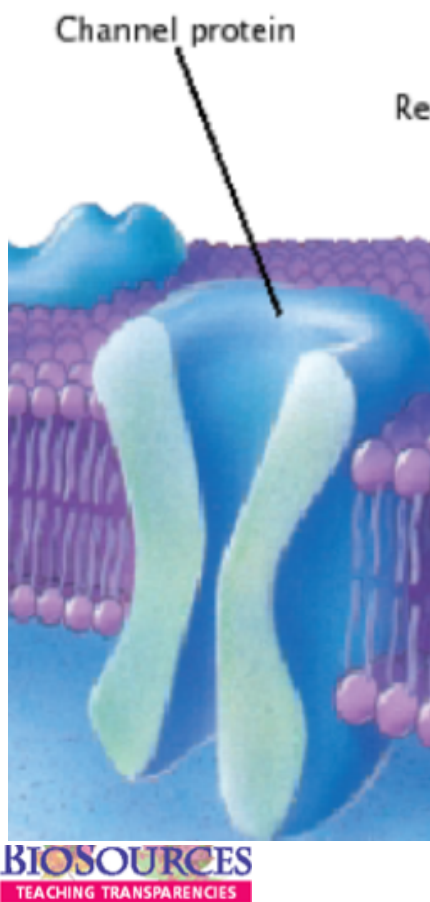
Closed channel

Open channel

Ion

**BIO**SOURCES  
TRANSPARENCY MASTER





Facilitated \_\_\_\_\_ - a type of passive transport because it moves substances \_\_\_\_\_ their concentration gradient \_\_\_\_\_ using the cell's energy