

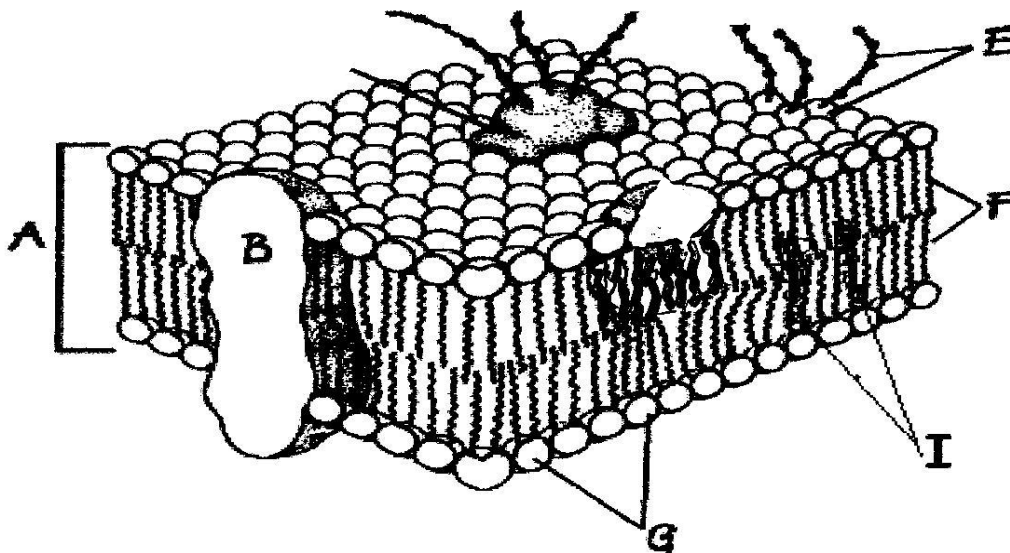
Cell Membrane Coloring Worksheet

Composition of the Cell Membrane & Functions (pg 182)

The cell membrane regulates what _____ and _____ the cell and also provides _____ and _____. The composition of nearly all cell membranes is a _____ sheet called a _____. The lipid bilayer gives cell membranes a _____ structure that forms a _____ barrier between the cell and its _____. Most cell membranes contain _____ molecules that are embedded in the _____. The proteins form _____ and _____ that help to move material across the cell membrane. Particles move constantly and the most common is diffusion, which does not require _____ and particles move from an area of _____ to _____.

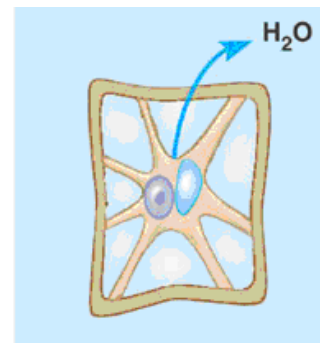
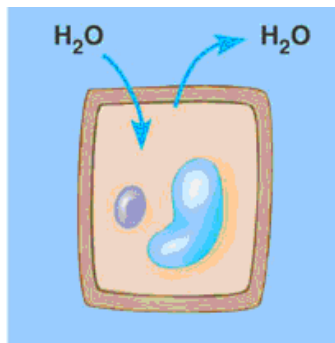
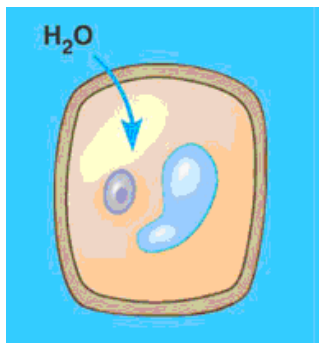
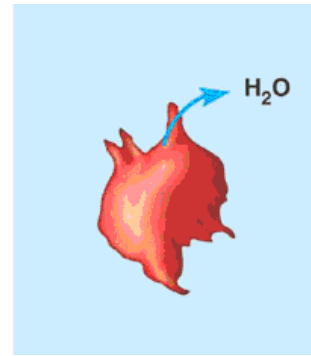
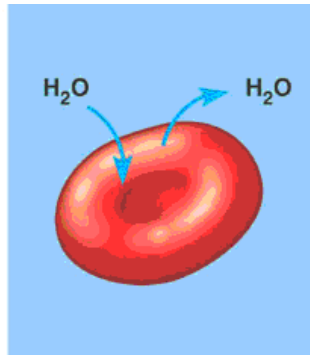
**Correctly color code and identify* the name for each part of the cell membrane.

Letter	Name/Color	Letter	Name/Color
_____	Phospholipid bilayer	_____	Protein (yellow)
_____	Carbohydrate Chain (red)	_____	Phosphate Heads (blue)
_____	Fatty acid tails (orange)		



Osmosis- is the diffusion of _____ through a selectively permeable membrane. Water will move across until _____ is reached. The effect of Osmosis is shown BELOW.

Label and Define (pg 186)



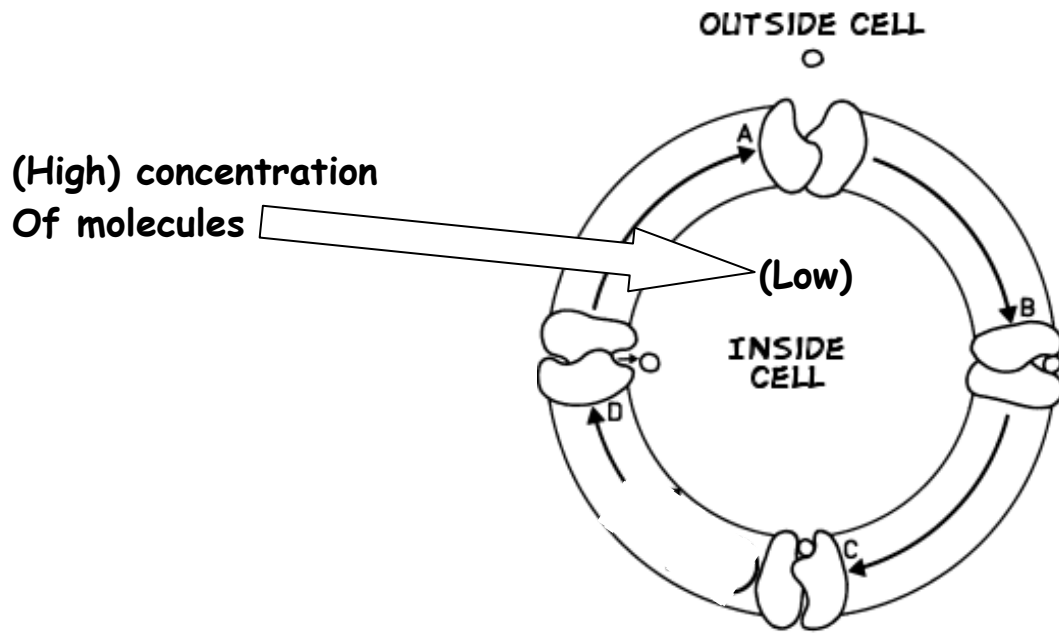
Facilitated Diffusion (p187)-

What type of transport is represented by the picture below?

What energy is being used? _____

In which direction (concentration gradient), is the movement occurring? _____

Color the internal environment of the cell yellow. **Color and Label** the transport proteins red and the substance being moved blue.



Energy Requiring (p188)

One type of _____ transport which uses energy is called the sodium potassium pump which helps muscle cells contract. This pump uses _____ to move ions _____ the concentration gradient. The protein that is used to pump the ions through is called a _____ protein and it changes its _____ to move the ions across the cell membrane. **Label and color** the carrier proteins red and the ions passing through (Na) green.

