

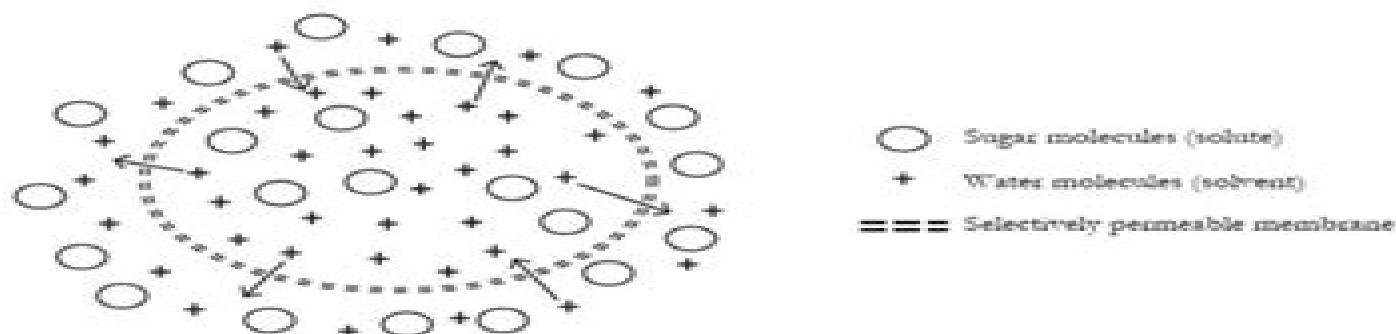
Transport in Cells

How do water molecules move in and out of cells?

Why?

Water accounts for over 70% of the human body. If water levels are not regulated and maintained in an organism the consequences can be disastrous. Cells and tissues may swell, blood cells burst, or the brain may expand so much it pushes on the skull, leading to brain damage and death. So what exactly is the process that allows organisms to regulate and maintain their water content?

Model 1 – Movement of Water In and Out of Cells



1. A solution consists of a solute and a solvent mixed together. For the solution in Model 1 identify and provide the symbol for the (0.5)
 - a. solute.
 - b. solvent.
2. Consider the size of the sugar and water molecules in Model 1. Which molecules in the diagram in Model 1 are able to move through the selectively permeable membrane? (0.5)
3. Complete the table below by counting the molecules in Model 1.

	Inside the Cell	Outside the Cell
Number of sugar molecules		
Number of water molecules		
Ratio of water to sugar (1)		

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Mr. Zee's Resources

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