

## Membrane Structure and Function

How do substances move in and out of cells?

### Why?

Advertisements for sports drinks, such as Gatorade®, PowerAde®, and Vitaminwater™, etc., seem to be everywhere. All of these drinks are supposed to help your body recover and replenish lost electrolytes, fluids, and vitamins after exercise. But how do the essential molecules contained in these drinks get into your cells quickly to help you recover after exercise?

### Model 1 – Simple Diffusion



1. How many different types of molecules are shown in Model 1?  
*Two.*
2. Count and record the number of triangles and circles found on each side of the membrane.  
*Triangles – 14 on left, none on right.*  
*Circles – 12 on left, 13 on right.*
3. Which shape is larger?  
*Triangle.*
4. Describe the direction of the movement of the molecules in Model 1?  
*They move in all directions.*
5. Which molecules are able to pass through the semi-permeable membrane? Justify your answer.  
*The dots, because they are small and can fit through the gaps, and because they are shown as equally distributed on both sides of the membrane.*
6. If you left this "system" for an extended period of time and then viewed it again, would you expect to find any changes in the concentrations of the molecules on either side of the membrane? Justify your answer.  
*No, the concentration of triangles will remain high on the left and none on the right as they can't pass through the membrane and the circles will stay evenly distributed on both sides of the membrane due to random movement.*

# Membrane Structure And Function Pogil Answers

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