

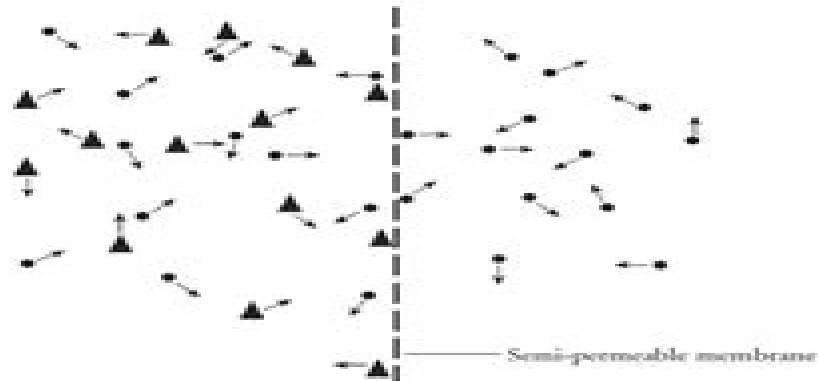
## Chapter 3.4 - Membrane Structure and Function

*How do substances move in and out of cells?*

### Why?

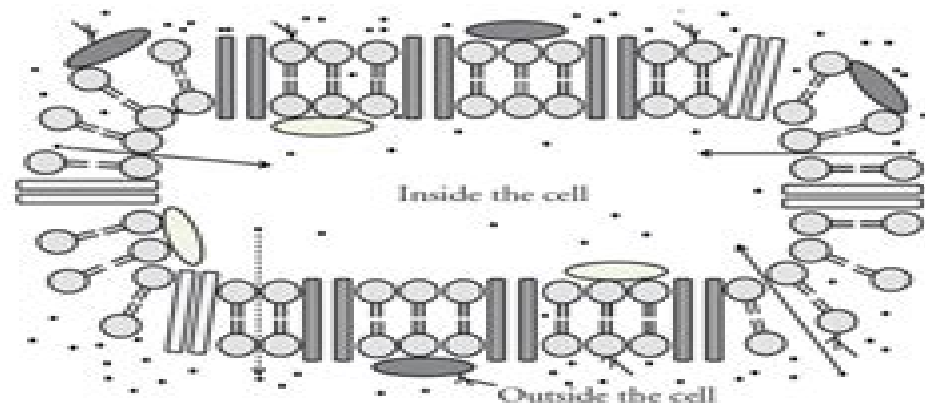
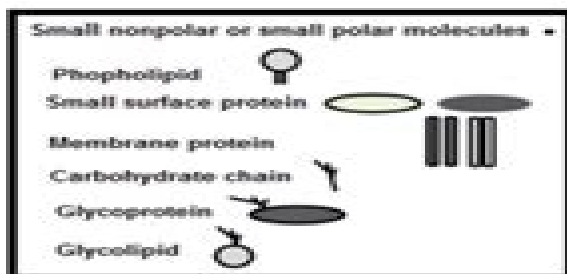
An advertisement for sports drinks, such as Gatorade, PowerAde, and Vitaminwater, etc. seem to be everywhere. All of these drinks are supposed to help your body recover and replenish lost electrolytes, fluids, and vitamins after exercise. But how do the essential molecules contained in these drinks get 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; Triangles — 14 on left, none on right**
3. Which shape is larger? **Triangle**
4. Describe the direction of the movement of the molecules in Model 1? **Triangle**
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**

### Model 2 – The Selectively Permeable Cell Membrane



# Membrane Structure And Function Answers Key

**Barbara Janson Cohen, Dena Lin Wood**



## Membrane Structure And Function Answers Key:

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**Federal Inventory of Energy Related Biomedical and Environmental Research for FY 1974 and FY 1975**  
Aerospace Corporation. Environment and Energy Conservation Division, 1975     Animal Life Ricki Lewis, 1992

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