#### Membrane Function

How does the cell membrane control movement of materials?

# Why?

The membrane is critical to the maintenance of homeostasis in living organisms. The cell membrane separates the cell from the external environment and plays a critical role in regulating movement of material in and out of the cell. Additionally, eukaryotic cells are made complex by the presence of internal membranes that form organelles, so the cells may become specialized. These organelle membranes create compartments within the cell that can do specific functions.

# Model 1 - Types of Ions and Molecules in a Cell

Type 1 lons	Type 2 Molecules	Type 3 Molecules	Type 4 Molecules
Potassium: K*	Glucose:	Water:	Molecular oxygen (O <sub>3</sub> ):
Sodium: Na+	11 - 21	Urea:	o=o
Calcium: Ca <sup>2+</sup>	OH H	Crea:	Carbon dioxide (CO <sub>3</sub> ): o=c=o
Chloride: Cl⁻	н он	H <sub>2</sub> N C NH <sub>2</sub>	
Polor	polar	Poler	nonpolar
small	large	prodi	ave off

- 1. Consider the ions and molecules in Model 1.
  - a. Identify at least two substances that would need to move into a cell to maintain homeostasis.

The two substances that would need to move into a cell to maintain homeostasis are.. Oxygen, water, sugar, and ions.

Briefly explain why the cell needs each of the substances you identified in part a.

Oxygen, water, and glucose are necessary for cellular respiration; and ions for energy.

- 2. Consider the ions and molecules in Model 1.
  - a. Identify at least two substances that would need to move out of a cell to maintain homeostasis.

Carbon dioxide, water, ions, and urea would need to come out of the cell.

Briefly explain the source of the molecules you identified in part a.

Water and carbon dioxide are a byproduct of cellularrespiration

Complete the table by labeling the types of substances as polar or nonpolar and large or small.

# **Pogil Activities For Ap Biology Membrane Function**

J. B. Finean, Roger Coleman, R. H. Michell

**Pogil Activities For Ap Biology Membrane Function:** 

Whispering the Strategies of Language: An Mental Quest through Pogil Activities For Ap Biology Membrane Function

In a digitally-driven world wherever screens reign supreme and immediate interaction drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within words usually get unheard. However, set within the pages of **Pogil Activities For Ap Biology Membrane Function** a charming literary value blinking with natural thoughts, lies an exceptional quest waiting to be undertaken. Penned by a skilled wordsmith, that marvelous opus invites readers on an introspective trip, gently unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the emotional depths of this poignant review, we can embark upon a honest exploration of the book is core styles, dissect their fascinating writing model, and yield to the effective resonance it evokes strong within the recesses of readers hearts.

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