

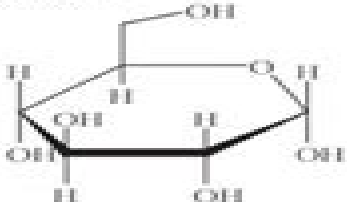
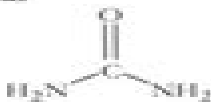
Membrane Function

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 Ions	Type 2 Molecules	Type 3 Molecules	Type 4 Molecules
Potassium: K^+	Glucose: 	Water:  Urea: 	Molecular oxygen (O_2): $O=O$ Carbon dioxide (CO_2): $O=C=O$
Sodium: Na^+			
Calcium: Ca^{2+}			
Chloride: Cl^-			
Polar	polar	Polar	nonpolar
small	large	small	small

- Consider the ions and molecules in Model 1.
 - 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.

- Consider the ions and molecules in Model 1.
 - 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 cellular respiration

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



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Pogil Activities For Ap Biology Membrane Function:

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Pogil Activities For Ap Biology Membrane Function**

In a global inundated with monitors and the cacophony of immediate interaction, the profound energy and mental resonance of verbal art often fade into obscurity, eclipsed by the continuous onslaught of sound and distractions. However, located within the musical pages of **Pogil Activities For Ap Biology Membrane Function**, a captivating work of fictional beauty that pulses with organic feelings, lies an unique journey waiting to be embarked upon. Written with a virtuoso wordsmith, this enchanting opus books visitors on an emotional odyssey, lightly exposing the latent potential and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is main styles, dissect their interesting publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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