

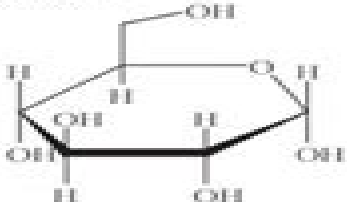
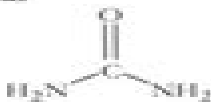
# Membrane Function

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:<br> | Water:<br><br><br>Urea:<br> | Molecular oxygen ( $O_2$ ):<br>$O=O$<br><br>Carbon dioxide ( $CO_2$ ):<br>$O=C=O$ |
| Sodium: $Na^+$     |                                                                                               |                                                                                                                                                                                                 |                                                                                   |
| Calcium: $Ca^{2+}$ |                                                                                               |                                                                                                                                                                                                 |                                                                                   |
| Chloride: $Cl^-$   |                                                                                               |                                                                                                                                                                                                 |                                                                                   |
| Polar              | polar                                                                                         | Polar                                                                                                                                                                                           | nonpolar                                                                          |
| small              | large                                                                                         | small                                                                                                                                                                                           | small                                                                             |

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.

- b. 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.

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

Water and carbon dioxide are a byproduct of cellular respiration

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



# Membrane Function Worksheet Pogil

**J Ma**



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