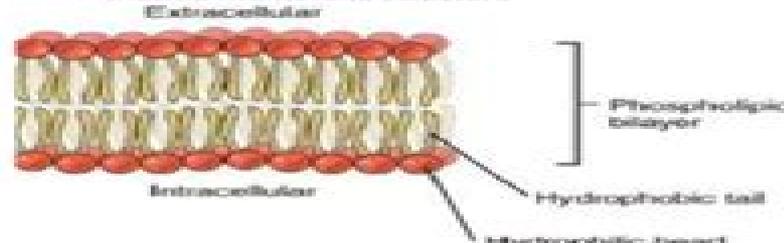


Biology

The Cell Membrane, Cell Transport, and Osmosis Reading Guide

In order for a cell to survive, it needs to be able to obtain the food molecules, nutrients, water, oxygen, and other molecules to keep it alive. Cells also create waste molecules and products that need to be exported, and fluids and secretions that need to move out of the cell. The process of moving substances into or out of a cell is called **cell transport**. Remember, that the more **surface area** a cell has, the more ability it has to move substances into or out of its **plasma membrane**.

Due to the structural nature of the plasma membrane, some substances can move through the **phospholipid bilayer** more easily than others. The fact that some substances move easily across the membrane, while others are blocked, describes the cell membrane's characteristic of **selective permeability**, or **semi-permeability**. Remember that phospholipids are composed of a **polar, hydrophilic, phosphate group head** and a **two nonpolar, hydrophobic, fatty acid tails**. A diagram of a phospholipid and the phospholipid bilayer is shown below.

Phospholipid**Plasma membrane structure**

1. What is **cell transport**?

the process of moving substances into and out of a cell

2. What types of substances does a cell need to get **INTO** the cell across the membrane?

nutrients, food molecules, water, oxygen

3. What types of substances does a cell need to get **OUT OF** the cell across the membrane?

wastes, secretions, fluids, products

4. How does the **surface area** of a cell affect cell transport?

the more surface area a cell has, the more ability it has to move substances

5. Why is the membrane said to be **selectively permeable**?

selectively permeable means that the membrane allows some substances to move easily, while others are blocked

6. Draw and label the structure of a **phospholipid** below.

phosphate head  *2 fatty acid tails*

7. **Hypothesize:** What type of molecules can pass directly through the membrane?

Small or Large (circle one)

Polar or *Non-Polar* (circle one)

Explain your reasoning below:

small molecules will be able to squeeze through the membrane

non-polar molecules will be able to get by the nonpolar tails of the phospholipids

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**Senior Lecturer in African History John
Parker, HarperCollins UK**

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