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Cell Transport Notes:



- All cells need to **move** materials in and out of the cell.
- What are some things that cells would need to transport in and out?
Carbon dioxide, water, oxygen, food, proteins
- There are two types of transport that cells carry out: **ACTIVE** and **PASSIVE**.

1. **PASSIVE TRANSPORT** :

- When **small** particles move from a **high** to a **low** concentration, it is called **passive transport**. This is the **normal** flow of materials.
- There are **2** types of passive transport. **Osmosis** is when water is moving high to low through a cell membrane, and **Diffusion** is when all other small particles move from high to low concentration.
- This type of transport does **NOT** require **ATP** or **energy**.

Here are some examples of this type of transport:

- Cells getting rid of CO₂
- Cells taking in O₂ for cellular respiration
- Water moving across the cell membrane when needed or as a waste product

2. **ACTIVE TRANSPORT** :

- When **small** particles move from a **low** to a **high** concentration, it is called **active transport**. This is **AGAINST** the normal flow of materials.
- This type of transport requires **ATP** or **energy**.
- If large particles need to enter or leave the cell, they require special types of active transport called **endocytosis** and **exocytosis**.
- Endocytosis** occurs when a cell needs to bring in large particles. Think about "endo" sounding like "in the" cell.
- Exocytosis** occurs when a cell needs to take out large particles. Think about "exo" sounding like "exiting" the cell. This is how the Golgi ships proteins out of the cell.

Here are some examples of active transport:

EX: cells bringing in large food particles, cells releasing waste, white blood cells "eating" pathogens,



Cellular Transport WebQuest

Part I: Membrane Transport

Answer/Draw in detail the questions or activities described below in your biology notebook

On the same website, go to the top and click on "Function." (Right after it says Cell Structure & Function) > Click on "Passive Transport" on the right hand side. If you cannot find it, the URL is: www.biology4kids.com/files/cell2_main.html

- How does passive transport differ from active transport?
- Two types of passive transport (movement of molecules across a membrane that does not require energy) include _____ and _____.
- What do some proteins act as to aid in moving molecules across a membrane?
- What do you think semi-permeable means? (permeable means to pass into or through).
- What is facilitated diffusion? Does it require energy to occur?
 - What is an example of a molecule that cannot cross the membrane by simple diffusion?
- Molecules that move from high to low concentration are said to be moving down a _____.
- Make a sketch in your notebook showing molecules in high concentration on one side of the membrane, and in low concentration on the other side of the membrane and the movement of molecules down a concentration gradient.⁴
- How are small molecules able to freely cross the membrane without an input of energy?
- What is osmosis?
- In terms of ion concentration, what type of homeostasis needs to be established for a cell to survive?
- What will happen if red blood cells are placed in water? Why does this happen?

Cell Structure, Function, & Transport

- Who was the first person to identify and SEE cells? **Robert Hooke**
- The cell theory applies to which of the following?
 - bacteria
 - plants & animals
 - multicellular organisms
 - all of these

All of these
- Which cell structure contains the cell's genetic material and control's cell activities? **Nucleus**
- Prokaryotes lack a _____. **Nucleus**
- What is the name for the thin, flexible barrier around a cell? **Cell membrane**
- Which types of organisms are prokaryotes? **Bacteria**
- What is the main function of the cell wall? **Support and protect the cell**
- Which of the following is NOT found in the nucleus?
 - cytoplasm
 - nucleolus
 - chromatin
 - DNA

Cytoplasm
- What type of organism does NOT contain a cell wall? **Animal**
- Which organelle helps provide cells with energy? **Mitochondria**
- What is the function of the cell membrane? **Regulate which materials enter and leave the cell.**
- Diffusion occurs because _____. **Molecules constantly move & collide with each other.**
- When the concentration of molecules on both sides of a membrane is the same, the molecules will _____. **Move across the membrane in BOTH directions.**
- Which means of particle transport requires input of energy from the cell? **Active transport.**
- The diffusion of water across a selectively permeable membrane is called _____. **Osmosis**
- The cell membrane contains channels and pumps that help move materials from one side to the other. What are these channels made of? **Proteins**
- Where does the assembly of ribosomes begin? **Nucleolus**
- True/False A red blood cell placed in pure water will shrink. **Swell (burst)**
- According to cell theory, all cells come from existing _____. **Cells**

CELL MEMBRANE NOTES PART I

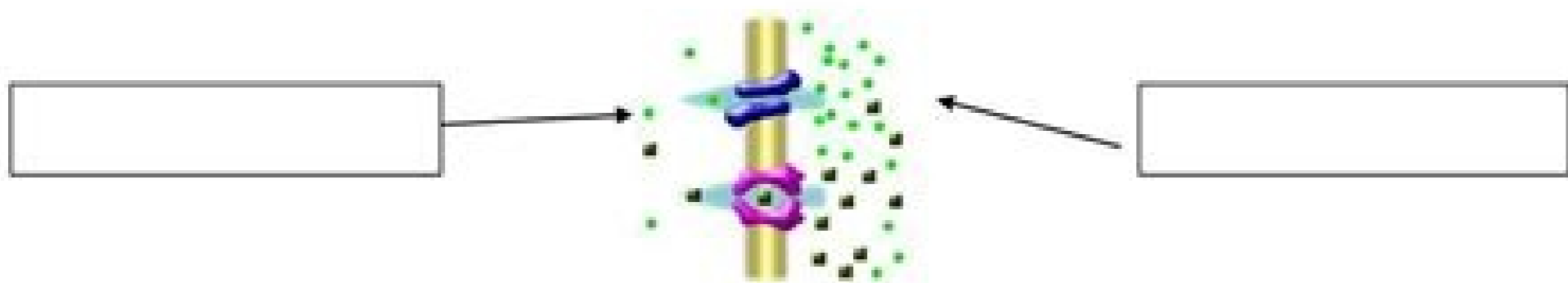
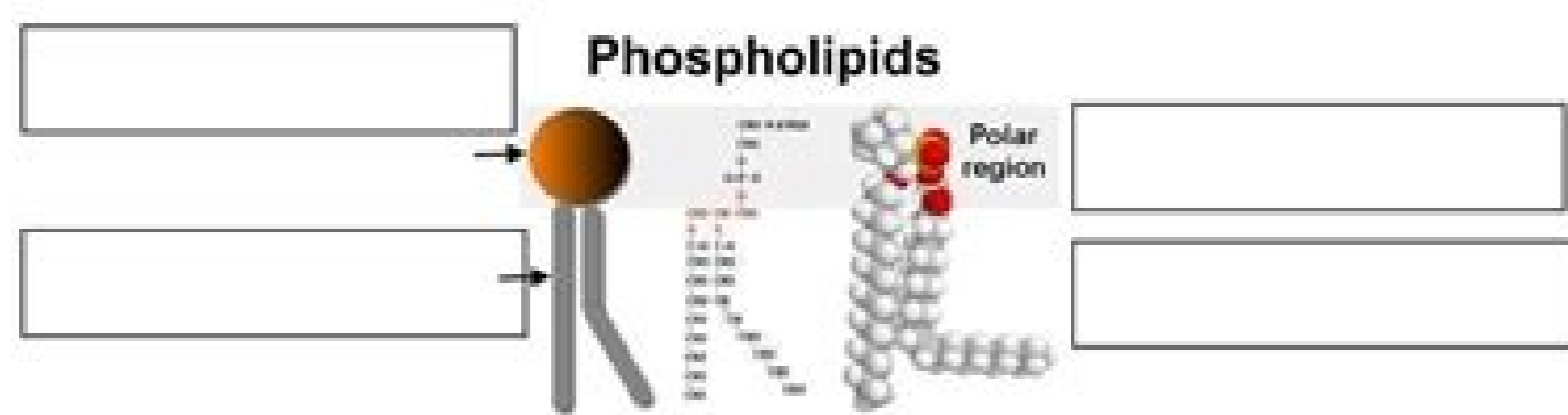
How do molecules, food, and ions get into and out of the cell membrane?

Before we discuss how it happens you need to know a few key vocabulary words.

- Hydrophobic - _____
- Hydrophilic - _____
- Concentration Gradient - _____
- Solute - _____
- Solvent - _____
- Solution - _____
- Equilibrium - _____

Composition of the Cell Membrane & Functions

All cells have a cell membrane. The cell membrane is also called the _____ membrane. It is made of a phospholipid _____. The head of a phospholipid is made of an alcohol and _____ group, while the tails are chains of _____. Phospholipids can move _____ and allow water and other _____ molecules to pass through into or out of the cell. This is known as _____ because it does not require _____ and the water or molecules are moving _____ the _____.



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