|  |  |
| --- | --- |
| **Guided Notes: The Plasma Membrane** | |
| What is the **plasma membrane**?  \*aka cell membrane, fluid mosaic, lipid bilayer | * A flexible barrier between the cell and its environment which… * **HOMEOSTASIS**: |
| http://library.thinkquest.org/C004535/media/cell_membrane.gifHow does it maintain **homeostasis**? | * Allows nutrients such as glucose, amino acids and lipids to… * Removes… |
| **http://ccaoscience.files.wordpress.com/2011/04/cell-plasma-membrane.jpgCharacteristics** of the Plasma Membrane | * Fluid and flexible |
| http://4.bp.blogspot.com/_oZnMPZulGZM/TMwo9xPy2NI/AAAAAAAAAEU/ddHYWQVoLDQ/s1600/Semipermeable_membrane.pngWhat is **selective permeability**? | * The membrane allows some molecules to pass through, while keeping others out * EX: |
| **http://www.linteichmandesign.com/pages/images/cell_membranebig.jpgFunctions** of the Plasma Membrane | 1. Regulates what enters and leaves the cell 2. Acts as a barrier between the cell and its environment |
| **http://year11biology2012.wikispaces.com/file/view/Phospholipid_bilayer.png/303423846/Phospholipid_bilayer.pngStructure** of the Plasma Membrane | * Composed of… |
| **The Phospholipid Bilayer**  **http://vagabondguru.com/Images/2009/April/PhospholipidBilayer.jpg**  **Hydrophilic**:  **Hydrophobic**: | * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ allows the membrane to interact with its water environment (both inside and outside of the cell) * Non-polar fatty acid tails avoid… |
| **http://online.morainevalley.edu/WebSupported/BIO111-Gibbons/membra29.jpgThe Phospholipid Bilayer (cont.)** | * 2 layers of phospholipids make a sandwich with… |
| **http://www.utm.utoronto.ca/~w3cellan/images/cell_membrane.jpgFluid Mosaic Model** | * **Fluid:** * **Mosaic:** |
| **http://ts3.mm.bing.net/th?id=H.4945170670289574&pid=15.1Components** of the Cell Membrane | * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** stabilize the membrane by keeping fatty acids tails from sticking to each other * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** regulates what enters and leaves the cell * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:**  communication with other cells |
| **Label** the Cell Membrane | **Word Bank:**   * **Carbohydrate Chain** * **Cholesterol** * **Glycoprotein** * **Lipid Tails** * **Peripheral Protein** * **Phosphate Head (2x)** * **Phospholipid** * **Phospholipid Bilayer** * **Transport/Channel Protein** |

