

# Cellular Transport

Name: \_\_\_\_\_ Per: \_\_\_\_\_

7.3

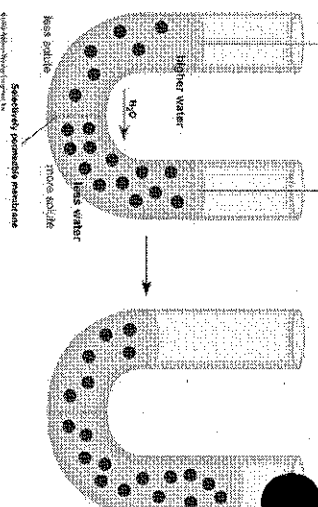



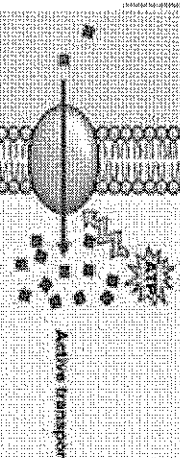
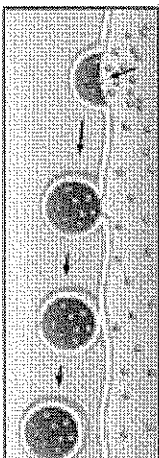
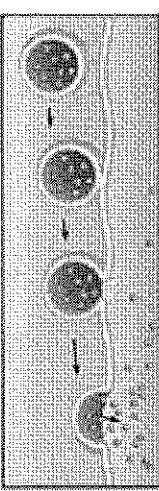
## Plasma Membrane and Cell Transport Notes

<p>Cell Membrane Labeling (pg. 204, 205)</p>		
<p>Phospholipids</p> <ul style="list-style-type: none"> <li>• F.A. tail</li> <li>○ hydrophobic</li> <li>○ phosphate head</li> <li>○ hydrophilic</li> </ul> <p>• bilayer (2)</p>		
<p>Passive Transport = Requires NO ENERGY</p>	<p>down the side</p> <ul style="list-style-type: none"> <li>• No Energy</li> <li>• Molecules are in constant motion</li> <li>• NO ENERGY</li> <li>• NO ENERGY</li> </ul>	<ul style="list-style-type: none"> <li>• 3 types</li> <li>• Move from H to L</li> <li>• EX: O<sub>2</sub> from lungs to blood</li> <li>• Larger particles that can't fit easily</li> </ul>
<p>Diffusion</p>	<p>Facilitated Diffusion</p>	<p>Facilitated Diffusion</p>
<p>Facilitated Diffusion</p> <p>down the tunnel side</p>	<ul style="list-style-type: none"> <li>• Uses protein channel (NO ENERGY)</li> </ul>	<p>Facilitated Diffusion</p>

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<p>Osmosis</p> <p><i>aguarum</i></p>	<ul style="list-style-type: none"> <li>• NO ENERGY</li> </ul> <p><i>H<sub>2</sub>O moves, not solute</i></p>	<ul style="list-style-type: none"> <li>• Diffusion of Water (Facilitated...)</li> </ul> 
<p>Isotonic =</p> 	<p>↑ Hypertonic</p> 	<p>↓ Hypotonic</p> 
<ul style="list-style-type: none"> <li>• = solute, H<sub>2</sub>O</li> </ul>	<ul style="list-style-type: none"> <li>• ↑ solute, ↓ H<sub>2</sub>O</li> </ul> <p>ACTIVE TRANSPORT</p>	<ul style="list-style-type: none"> <li>• ↓ solute, ↑ H<sub>2</sub>O</li> </ul>
<ul style="list-style-type: none"> <li>• Requires Energy</li> </ul> <p>Protein Pump</p> 	<ul style="list-style-type: none"> <li>• ↓ - ↑</li> </ul> <p>Endocytosis</p> 	<ul style="list-style-type: none"> <li>• protein pump</li> </ul> <p>Exocytosis</p> 
<p>Review</p>		
<ul style="list-style-type: none"> <li>* Passive Transport</li> <li>* Simple diffusion</li> <li>* diffusion of nonpolar, hydrophobic molecules</li> <li>* lipids</li> <li>* high → low concentration gradient</li> <li>* Facilitated transport</li> <li>* diffusion of polar, hydrophilic molecules</li> <li>* through a protein channel</li> <li>* high → low concentration gradient</li> </ul>	<ul style="list-style-type: none"> <li>* Active transport</li> <li>* diffusion <i>against</i> concentration gradient</li> <li>* low → high</li> <li>* uses a protein pump</li> <li>* requires ATP</li> </ul>	