The Cell in its Environment pg. 80

|  |  |
| --- | --- |
| What is the purpose of the cell membrane?  What is diffusion?  What causes diffusion?  What is osmosis?  What are the effects of osmosis?  What is active transport?  What is passive transport? | The cell membrane is selectively permeable, meaning it only allows some substances to enter/leave the cell.  Diffusion is the process by which molecules move from an area of high concentration to low concentration. It is the main method by which small molecules move across the cell membrane.  Collisions of moving molecules cause them to push away from each other. Think of a crowded room. People spread out to get personal space. If it gets too crowded, people will leave.  Osmosis is the diffusion of water.  1. Keeps the shape of red blood cells.  2. Necessary for many cell processes.  Active transport is the movement of materials through a cell membrane using cellular energy. This usually requires transport proteins or engulfing.  Passive transport is the movement of dissolved materials through a cell membrane without using energu. |