

<p><b>Functions:</b></p> <p>contains cell contents, controls what enters and exits a cell</p>	<p><b>Phospholipids:</b></p> <p>form a double layer surrounding a cell; composed of a charged phosphate group, glycerol, and two fatty acid chains; head is polar and forms hydrogen bonds</p>
<p><b>Cell Membrane</b></p>	
<p><b>Fluid mosaic model:</b></p> <p>describes the arrangement of molecules making up a cell membrane; the membrane is flexible like a fluid and has a variety of molecules like the variety of tiles in a mosaic</p>	<p><b>Other molecules:</b></p> <ul style="list-style-type: none"> <li>• cholesterol strengthens membranes,</li> <li>• proteins aid cell identification and movement of molecules across membranes and cell signaling,</li> <li>• carbohydrates aid cell identification</li> </ul> <p>The sketch should look similar to Figure 3.18</p>

Sketch a semipermeable membrane.



**Selective permeability:**

- allows some materials to cross;
- can also use terms such as semipermeable and selectively permeable;
- enables a cell to maintain homeostasis;

**Receptors:** detect a signal molecule and perform an action in response

- **Intracellular** located inside a cell; bind to molecules that can cross the membrane
- **Membrane** located in the membrane; binds to molecules that cannot cross the membrane; change in shape transmits the message to the cell interior