Study Guide  The Plasma Membrane

In your textbook, read about the function of the plasma membrane.

Complete the table by checking the correct column(s) for each description.

<table>
<thead>
<tr>
<th>Description</th>
<th>Selective Permeability</th>
<th>Homeostasis</th>
<th>Plasma Membrane</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The process of maintaining balance inside a cell</td>
<td></td>
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<tr>
<td>2. A boundary between a cell and its environment</td>
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<tr>
<td>3. The feature of the plasma membrane that keeps some substances out</td>
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<tr>
<td>4. Separates prokaryotic and eukaryotic cells from the watery environment in which they exist</td>
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<tr>
<td>5. The quality of a plasma membrane that allows oxygen and glucose to move in</td>
<td></td>
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<tr>
<td>6. Maintained by the plasma membrane</td>
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</tbody>
</table>

In your textbook, read about the structure of the plasma membrane.

Label the diagram of the plasma membrane. Use these choices:

- carbohydrate chain
- nonpolar tails
- polar head
- transport protein

7. _____________________________
8. _____________________________
9. _____________________________
10. _____________________________

Match the definition or description in Column A with the term in Column B.

**Column A**

11. make up most of the molecules in the plasma membrane
12. a molecule that has a glycerol backbone, two fatty acid chains, and a phosphate-containing compound
13. move substances through the plasma membrane
14. two layers of phospholipids arranged tail-to-tail
15. the phospholipid “sea” in which embedded substances float
**Column B**

A. transport proteins
B. lipids
C. phospholipid

D. fluid mosaic model
E. phospholipid bilayer