Study Guide

Section 2: The Plasma Membrane

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

CHAPTER 7

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

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

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
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8			— ~~~~~	1 000000000000000000000000000000000000
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Matcl	n the definition or descripti	on in Column A with the	e term in Column B.	

_ 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

Column A

Name	Date	Class					
Section Quick Check CHAPTER 7 Section 2: The Plasma Membrane							
After reading the section in your textbook, resp		ds.					
2. Describe the structure of the phospholipi	d bilayer.						
3. State the function of the plasma membrar	ne as it relates to homeostasis.						
4. Predict what would happen to a cell if its	plasma membrane lost its selectiv	ve permeability. Explain.					
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5. Clarify why the surface of the plasma membrane can be described as a mosaic.