

Biology 2

Cell Structure and Membrane Transport Quiz

Chapter 7

Key words

Prokaryotic	hypo, iso, and hypertonic
Eukaryotic	endocytosis
Passive transport	exocytosis
Active transport	vesicle
Osmosis	
Diffusion	
Facilitated diffusion	
Plasmolysis	
Turgor pressure	
Phospholipids	
Integral membrane protein	
Peripheral membrane protein	

Objectives:

- 1) List the three components of the cell theory
- 2) Describe the differences and similarities between prokaryotic and eukaryotic cells
- 3) Explain the differences between plant and animal cells
- 4) Review the functions of the cellular organelles you studied for your organelle quiz (BE SURE TO TAKE AND REVIEW THE QUIZSTAR CELL ORGANELLE QUIZ)
- 5) Describe the basic structure of the cell membrane (what are the types of molecules that make it up) and explain why it is called a “fluid-mosaic”
- 6) Describe the basic structure of a phospholipid.
- 7) What role do proteins play in the cell membrane?
- 8) Explain the processes of **passive** and **active transport** and know **examples of each**
- 9) Explain the difference between *hypotonic*, *hypertonic* and *isotonic* solutions. Describe what will happen to both an animal cell and a plant cell that is placed in these types of solutions (use the words plasmolysis and turgor pressure where applicable when talking about plant cells)
- 10) Explain what turgor pressure is and why it is important to plants
- 11) Explain the difference between exocytosis and endocytosis and why they are necessary to move some substances across the plasma membrane