BIOLOGY A – Fall 2015

STUDY UNIT# 4
Membrane Transport, Photosynthesis

OBJECTIVES

1. Define the following terms: diffusion, osmosis, facilitated diffusion, protein pump, endocytosis, exocytosis.
2. Differentiate between passive and active transport and be able to give an example of each.
3. Indicate the conditions under which diffusion will occur and determine the direction of diffusion.
4. Describe what happens to a cell, as a result of osmosis, when the cell is placed in solutions of higher or lower water concentrations than the cell.
5. Write the balanced chemical equation summarizing the process of photosynthesis, and be able to explain what each symbol and/or formula means.
6. Explain why photosynthesis, the process in which green plants use light energy to produce glucose and oxygen from carbon dioxide and water, is necessary for most living things, and is the most fundamental of all life processes.
7. Explain why the green portion of white light is not usable by plants in the process of photosynthesis.

ASSIGNMENTS

1. Reminder from Study Unit #3: the cell travel brochure is due Wednesday, September 16th.
2. Read pages 182-189, and take notes. This is due Wednesday, Sept. 16th at the beginning of the period.
3. Lab #3 is due at the beginning of the period Thursday, Sept. 17th.
4. Draw cartoon sketches to illustrate the following: *diffusion, osmosis, facilitated diffusion, active transport, endocytosis*, and *exocytosis*. This is due on Thursday, Sept. 17th.
5. Read and take notes for pages 201 – 207. This is due Friday, September 18th.

ANNOUNCEMENTS

1. There will be a quiz on Tuesday, September 15th. The quiz will focus on all objectives on Study Unit 3.
2. Expect a Reading Quiz sometime this week on Study Unit 2-4 reading assignments.

Quote: *Biology Exam Question: What geologic era are we living in?*

Student response: "The Henozoic, because I see lots of chickens"

A former Granada Student

SCHEDULE

Monday	Tuesday	Wednesday	Thursday	Friday
Sept. 14	Sept. 15	Sept. 16	Sept. 17	Sept. 18
Finish Chemistry Review Start Cell Transport Discussion	**Quiz 2** Discuss Cell Transport Receive Lab #3	Travel Brochure Due Lab #3 Permeability of a Cell Membrane	Review Lab #3 Finish Cell Transport Notes	Discuss Photosynthesis Photosynthesis Activity