



Teacher: _____ M. Adrover _____

Subject _____ Biology _____

Grade: _____ AP Bio _____

Lesson Plan – Oct. 13th – Oct. 23rd, 2015

Unit	Unit II: The Cell
Lessons	Chapter 6: A Tour of the Cell (Continued) Chapter 7: Membrane Structure and Function Chapter 8: An Introduction to Metabolism
Objectives	Chapter 7: Students will be able to describe the physiology of the eukaryotic cell. Chapter 8: Students will give general descriptions of the metabolic pathways that take place in living beings.
Materials	Infocus projector, Campbell Textbook, AP Biology Sample Syllabus, Microscope, dialysis bag, sugar solution, Also, Internet connection will be required for the discussion of this chapter.
Activities	<ul style="list-style-type: none"> - Discussion of blog posts from The Hypertextual Lounge (The Artificial Leaf). - BBC documentary: <i>Secret Universe: The Hidden Life of Cells</i> (2012) - Lab IV: Computer simulation model of passive transport (Osmosis and diffusion) - Lab V: Demonstration of Osmosis via dialysis tubing, and high solute solutions. - Lab VI: Microscopy: observation, measurement and data gathering of infusoria culture.
Assessment	Students will answer concept check exercises for Chapter 8. A computer simulated model of passive transport (diffusion/osmosis) will be used in class; then students will apply membrane function concepts to what was shown. Guided questions based of <i>Biology in Focus's</i> Chapter 4 and the documentary <i>The Hidden Life of Cells</i> .

Special Note: This lesson plan may be subject to change depending on the group's educational needs, school activities, holidays, and/or suspension of classes due to emergencies and extreme weather conditions.