

PCB BIO 4 ASSIGNMENT SHEET 9:OCTOBER 20-24, 2008

Reading, Preparation, Study Questions, Practice Essays, Labs.

ASSIGNMENT	DESCRIPTION
MONDAY	<p>THERE IS A LARGE TEST ON ENZYMES, ENERGY, AND CELLULAR RESPIRATION THIS FRIDAY, 10/24/2008.</p> <p>Here is the deal: You are alive. Like all forms of life you need to change energy that is out there in the world into cell energy! Cell energy is ATP (adenosine triphosphate), but you should have already known that. And if you didn't know, now you do. ALL cells (the basic unit of life, perform one process that literally means "breaking of glucose," and that process is know as glycolysis. Some cells, in the presence of molecular oxygen make a lot more ATP by utilizing the group of reactions commonly called aerobic cellular respiration.</p> <p>Tonight's homework is to describe the final part of cellular respiration, the ETC. What does ETC stand for? That is right the electron transport chain! The main job of the ETC is to unload all of those e- carriers that were loaded up, and make a proton (H+) gradient so that ATP can be made! Draw the pictures on p. _____ in order and explain what is happening in each one, using your own words!</p> <p>DO A GOOD JOB.</p>
TUESDAY	Describe and define what fermentation is, where it is done in cells, and the similarities and differences between alcoholic fermentation and lactic acid fermentation.
WEDNESDAY	Write a four paragraph explanation of cellular respiration. Include paragraphs explaining the important aspects, inputs and products of glycolysis, the krebs cycle and the electron transport chain. Do a great job. Details count.
THURSDAY	Study for your difficult test that will be on enzymes, energy and cellular respiration. It is tomorrow.
FRIDAY	There is a test today on enzymes and cellular respiration. Photosynthesis test next week on Friday (yes on Halloween. Don't complain, or you will get a harder test.)