

PCB BIO 4 ASSIGNMENT SHEET 5: SEPTEMBER 21-25, 2009
 Reading, Preparation, Study Questions, Practice Essays, Labs.

ASSIGNMENT	DESCRIPTION
Monday	we did not meet today
Tuesday	Exam today on biological molecules and chemistry.
Wednesday	cell lab. read info in chapter 4.
Thursday	<p>There will be a short quiz on cell organelles and cell types tomorrow. Cell size lab is due tomorrow.</p> <p>We are moving from molecules, to bigger things called organelles and cells this week. Many humans find the material we just had a test on to be hard, but this weeks information is a lot more concrete.</p> <p>To do your best on chapter 4, you are going to have to read carefully, ask questions in class, do a lot of memorizing, and make a lot of connections between many different cell parts.</p> <p>Also, you will need color pencils Tuesday and Thursday in lab, so get some.</p> <p>Tonight for homework:</p> <ul style="list-style-type: none"> 4.1 Define cell theory and briefly describe the discoveries that led to its development. 4.2 Explain why there are upper and lower limits to cell size. 4.3–4.4 Distinguish between the structures of prokaryotic and eukaryotic cells. 4.4 Explain why compartmentalization is important in eukaryotic cells. 4.4 Compare the structures of plant and animal cells. Note the function of each cell part. <p>Organelles of the Endomembrane System</p> <p>4.12–4.13 Describe the structure and functions of the nucleus, endomembrane system, smooth and rough endoplasmic reticulums, Golgi apparatus, lysosomes, and vacuoles.</p> <p>Energy-Converting Organelles</p> <p>4.14–4.15 Compare the structures and functions of chloroplasts and mitochondria.</p> <p>The Cytoskeleton and Related Structures</p> <ul style="list-style-type: none"> 4.16 Compare the structures and functions of microfilaments, intermediate filaments, and microtubules. 4.17 Explain how the structure of cilia and flagella relate to their functions. <p>Cell Surfaces and Junctions</p> <ul style="list-style-type: none"> 4.18 Compare the structures and functions of cell surfaces and intercellular junctions of plant and animal cells.
Friday	Make sure you really study cells.