

Name: _____ Date: _____

Ch. 6 Chapter Review

1. What/why is the cell theory significant (don't only state the tenets, explain what it means and why it is a theory?)
2. How does the ratio of a cell's surface area to volume place upward and downward limits on cell size?
3. How do organelles allow for increased complexity in cells? Be sure to give at least 3 reasons why. This should be a thorough discussion!
4. Draw and label a typical eukaryotic and prokaryotic cell.
5. Create a table showing the full structure and function of the following organelles:
 - Nucleus
 - Ribosomes (free and bound)
 - Endoplasmic reticulum (rough and smooth)
 - Golgi Apparatus
 - Mitochondria
 - Vesicles
 - Lysosome
 - Mitochondria
 - Chloroplasts
 - Cytoskeleton (microtubules, microfilaments, and intermediate filaments)
6. Explain the functions of the endomembrane system.
7. Describe the differences between a plant and animal cell.