

Honors Biology Study Guide
Cell Structure & Function – Chapter 8

On a separate sheet of paper, explain the following concepts:

1. Cell Theory

1. List the major principles of the cell theory
2. Describe the five people and their contributions to the development of the microscope and the cell theory (no dates)

2. Prokaryotic vs. Eukaryotic cells

3. Describe prokaryotic cells. Give examples
4. Describe eukaryotic cells. Give examples

3. Eukaryotic Cells

5. Using your notes, describe ten organelles and their functions.
6. Indicate the cells that have cell walls and the components of the cell wall
7. Describe how plant and animal cells differ.

4. Cell Membrane

8. Describe the cell membrane and the molecules it contains.
9. What determines if particles can cross the membrane?
10. Describe two types of transport proteins.

5. Cell Transport

11. Describe the differences between passive and active transport.
12. Describe the differences between diffusion and facilitated diffusion.
13. Describe tonicity (iso-, hypo-, and hypertonic) (important!)
14. Describe endocytosis and exocytosis.

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The Gospel of Education Martin Zschoche, 2021-01-02 Re explore teaching from the depths of brain based accelerated learning research that reveals how students learn and respond to classroom environments and teacher interactions By creating a warm and welcoming atmosphere complete with music and fun your students learn how much you care for them and understand their needs Your words are powerful and everything you do or say sends a message consciously or non consciously to your students Through purposeful classroom management and choreographed instruction grab your students attention and keep them so focused there is no time to become distracted or misbehave By removing students fear factors and giving them leadership roles students take ownership of the classroom productively engaging with each other and learning deeply together Turn assessments into a joyful experience of profound learning Be that teacher the students remember fondly years after they leave school the one about whom they say We learned soooo much and we remember it

Strategies for Teaching DNA Effectively in a Secondary Honors Biology Class Charles K. Sharp, 1990

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