

Honors Biology EOC Study Guide

1. Understand the relationship between the structures and functions of cells and their organelles.

- ❖ Summarize the structure and function of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) and ways that these organelles interact with each other to perform the function of the cell.
- ❖ Compare prokaryotic and eukaryotic cells in terms of their general structures (plasma membrane and genetic material) and degree of complexity.
- ❖ Explain how instructions in DNA lead to cell differentiation and result in cells specialized to perform specific functions in multicellular organisms.
- Identify cell organelles in diagrams of plant and animal cells.
- Explain how the structure of the organelle determines its function. (Example: folded inner membrane in mitochondria increases surface area for energy production during aerobic cellular respiration).
- Summarize how these organelles interact to carry out functions such as energy production and use, transport of molecules, disposal of waste, and synthesis of new molecules. (Example: DNA codes for proteins which are assembled by the ribosomes and used as enzymes for energy production at the mitochondria).
- Proficiently use proper light microscopic techniques as well as determine total power magnification. The purpose is to use microscopes to observe a variety of cells with particular emphasis on the differences between prokaryotic and eukaryotic as well as plant and animal cells. Recognize that microscopes reveal greater detail about eukaryotic and prokaryotic cell differences.
- Infer that prokaryotic cells are less complex than eukaryotic cells.
- Compare the structure of prokaryotic and eukaryotic cells to conclude the following:
 - Presence of membrane bound organelles - mitochondria, nucleus, vacuole, and chloroplasts are not present in prokaryotes.
 - Ribosomes are found in both.
 - DNA and RNA are present in both, but are not enclosed by a membrane in prokaryotes.
 - Contrasts in chromosome structure - circular DNA strands called plasmids are characteristic of prokaryotes.
 - Contrasts in size - prokaryotic cells are smaller.
- Compare a variety of specialized cells and understand how the functions of these cells vary. (Possible examples could include nerve cells, muscle cells, blood cells, and sperm cells.)
- Explain that multicellular organisms begin as undifferentiated masses of cells and that variation in DNA expression and gene activity determines the differentiation of cells and ultimately their specialization.
 - During the process of differentiation, only specific parts of the DNA are activated; the parts of the DNA that are activated determine the function and specialized structure of a cell.
 - Because all cells contain the same DNA, all cells initially have the potential to become any type of cell; however, once a cell differentiates, the process cannot be reversed.
 - Nearly all of the cells of a multicellular organism have exactly the same chromosomes and DNA.

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