

Concept 1

Cell Theory and Organelles

Objectives:

1. List the three principles of cell theory.
 - a. All living things are made of cells.
 - b. Cells are the basic unit of life.
 - c. All cells come from other cells.
2. Create a Venn diagram comparing prokaryotic and eukaryotic cells.

	Prokaryotic	Eukaryotic
Nucleus?	no	yes
Membrane-bound organelles?	no	yes
Division?	binary fission	mitosis
Size of organisms?	unicellular	uni or multicellular
Cell walls?	yes, made of peptidoglycan	Only fungi and plants, made of chitin or cellulose
Ex. of organisms with this type of cell?	bacteria (and archaea)	animals, plants, fungi, protists

3. List the structures that distinguish plant cells from animal cells.
 - a. **Animal:** mitochondria, centrioles, cilia/flagella
 - b. **Plant:** cell wall, central vacuole, chloroplast
4. Describe the function of the following organelles:

Cell (plasma) membrane	Controls what goes in and out of the cell
Cytoskeleton	Gives the cell shape, moves organelles, structural support for animal cells

Unit 2 Cells Study Guide Answers

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Jones, Lynn Koplitz, Thomas Spence**



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