

## Cell Structure and Function

**Study Guide B****Answer Key****SECTION 1. CELL THEORY**

1. first to identify cells and name them
2. observed live cells and observed greater detail
3. concluded that plants are made of cells
4. concluded that animals and, in fact, all living things are made of cells
5. proposed that all cells come from other cells
6. All organisms are made of cells. All existing cells are produced by other living cells. The cell is the most basic unit of life.
7. Answers will vary. Sample answer: Cell theory is one of the great unifying theories of biology. Cell theory helped people understand that life didn't arise from nonliving sources.  
Y diagram: *Eukaryotic cells*—surrounded by a cell membrane; contains cytoplasm; contains a nucleus; contains membrane-bound organelles; tends to be microscopic in size; eukaryotic organisms may be single-celled or multicellular; *Prokaryotic cells*—surrounded by a cell membrane; contains cytoplasm; tends to be microscopic in size; prokaryotic organisms are single-celled; *Bats*—surrounded by a cell membrane; contains cytoplasm; tends to be microscopic in size.
8. a jellylike substance that contains dissolved molecular building blocks and, in some types of cells, organelles
9. in the cytoplasm
10. cell theory
11. prokaryotic cells

**SECTION 2. CELL ORGANELLES**

1. The cytoskeleton supports and shapes the cell, positions and transports organelles, provides strength, assists in cell division, and aids cell movement.
2. The cytoskeleton supports and shapes the cell.
3. The cytoskeleton helps the cell move.
4. stores most of the genetic information of a cell; contains the nucleolus, where ribosomes are assembled
5. endoplasmic reticulum
6. link amino acids together to form proteins
7. processes, sorts, and delivers proteins
8. vesicles
9. supply energy to the cell by converting molecules from food into usable energy
10. stores materials needed by a cell; may help provide support to plant cells
11. contains enzymes that break down damaged and worn-out cell parts; defends a cell from invaders
12. organizes microtubules to form cilia and flagella for cell motion or the movement of fluids past a cell
13. The cell walls are strong and rigid and adhere to each other, which helps to support the entire plant.
14. All cells are surrounded by a cell membrane that is flexible and interacts with the environment. Only certain cells have a cell wall, which is rigid and provides shape and support to cells.
15. They enable plants to convert solar energy into energy-rich molecules that cells can use.
16. endoplasmic reticulum
17. mitochondrion

**SECTION 3. CELL MEMBRANE**

1. Student should draw and label: phosphate group; glycerol; fatty acid.
2. the charged phosphate and glycerol
3. the fatty acid tails
4. polar
5. outside the cell because of the extracellular fluid and inside the cell because of the cytoplasm
6. The polar heads interact with the watery environments both inside and outside the cell. The nonpolar tails interact with each other inside the membrane.

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