

The Living Cell
from the *Biology: The Science of Life Series*
Post-Test

Part A.

Describe the function of each of the following cell parts:

1. Ribosome-
2. Mitochondrion-
3. Endoplasmic reticulum-
4. Golgi body-
5. Lysosome-
6. Cell membrane-
7. Chloroplast-
8. Chromatin-
9. Food vacuole-
10. Cell wall-

Part B.

From the list above, which parts would not be found in animal cells.

Part C.

What is a eukaryote? What is a prokaryote?

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Video Quiz

Directions: Answer the following questions either True or False.

1. TRUE OR FALSE? Ribosomes are known as "the powerhouses of the cell." _____
2. TRUE OR FALSE? Not all cells have a nucleus. _____
3. TRUE OR FALSE? Proteins travel through the endoplasmic reticulum. _____
4. TRUE OR FALSE? Enzymes are proteins. _____
5. TRUE OR FALSE? Animal cells have more chloroplasts than plant cells. _____

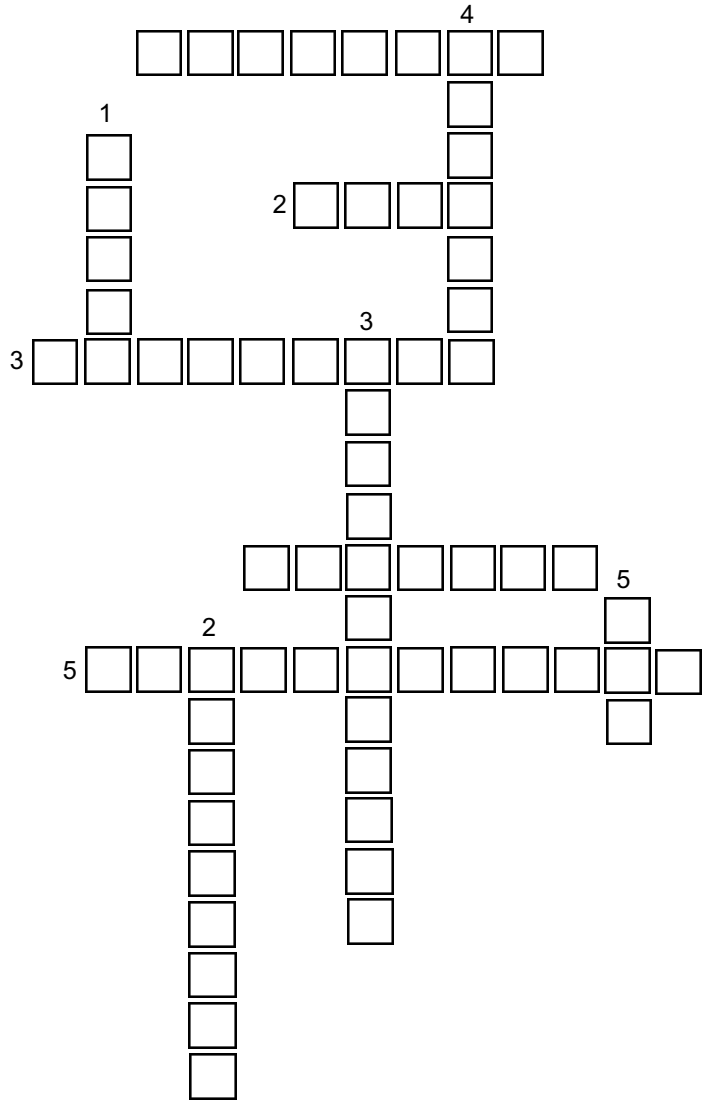
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Crossword Puzzle

ACROSS

1. Protoplasm is enclosed in a skin-like cell _____.
2. Plant cells have a thick outer layer called a cell _____.
3. Instructions from DNA are translated into proteins by organelles called _____.
4. Plant cells usually have a large _____, which is filled with liquid.
5. Photosynthesis takes place in organelles called _____.

DOWN

1. Proteins are sorted out and "packaged" by an organelle called the _____ body.
2. Food vacuoles fuse with _____, which release enzymes to break down the food into simple nutrients.
3. Energy from sugars is released inside organelles called _____.
4. Protoplasm of the cells of eukaryotes is divided into a rounded _____ and the cytoplasm that surrounds it.
5. Energy from sugars ends up inside molecules of ADENOSINE TRIPHOSPHATE, or _____, which provides readily available energy whenever it is needed by a cell.



AGC/United Learning 1560 Sherman Ave., Suite 100 Evanston, IL 60201 800-323-9084

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Pre-Test

Directions: Answer each question TRUE OR FALSE.

1. The instructions for making proteins are stored in molecules of DNA. _____
2. Proteins are made in the nucleus. _____
3. All cells are surrounded by a cell or plasma membrane which regulates everything that enters and leaves a cell. _____
4. The cells of bacteria and other monerans are much simpler than the cells of plants and animals. _____
5. Life cannot exist without cells. _____
6. Very few cells need to take in energy to live. _____
7. Most cells are so small they can only be seen with a microscope. _____
8. Unicellular means having more than one cell. _____
9. Cells have all the characteristics of living things except one: They cannot respond to their surroundings. _____
10. The cells of plants and animals are exactly the same. _____