

Essential Question

How does the survival of a system (self, family, town) depend on the successful function of each of its interdependent parts?

Vocabulary

Cell Organelle Endoplasmic Reticulum Chromosome Virus Tissue Diffusion Active transport Photosynthesis Energy Prokaryotic Cell membrane Ribosome Lysosome DNA Host Cell Organ Osmosis Endocytosis ATP Homeostasis Eukaryotic Nucleus Mitochondria Cell Wall Central Vacuole Organ System Passive transport Exocytosis Connective tissue Nervous tissue Organization Cytoplasm Golgi Body Chloroplast Chlorophyll Organism Equilibrium Cellular Respiration Muscle tissue Epithelial tissue

<u>Objectives</u>

- 1. Identify and describe the characteristics that makes something living.
- 2. Describe the significance of homeostasis in a living organism.
- 3. What are two advantages of being multicellular?
- 4. Describe the functions of cell organelles.
- 5. Differentiate between plant and animal cells.
- 6. Differentiate between prokaryotic and eukaryotic cells.
- 7. Explain the process of photosynthesis (include the organelles, the input reactants, and the output products)
- 8. Explain the process of cellular respiration (include the organelles, the input reactants, and the output products).
- 9. Why are producers important the survival of all organisms?
- 10. How do photosynthesis and cellular respiration relate to each other?
- 11. How do particles move during diffusion and osmosis? Endocytosis and exocytosis?
- 12. (Bonus) Why would your muscles need to be supplied with more food when there is a lack of oxygen than when there is plenty of oxygen present?

Interactive Cell Organelle Table

http://utahscience.oremjr.alpine.k12.ut.us/sciber00/7th/cells/sciber/orgtable.htm

http://www.cellsalive.com/cells/3dcell.htm

http://utahscience.oremjr.alpine.k12.ut.us/sciber00/7th/cells/lesson/index.htm

http://quizlet.com/83760/organelles-quiz-flash-cards/

Levels of Organization

http://utahscience.oremjr.alpine.k12.ut.us/sciber00/7th/cells/sciber/levelorg.htm http://www.mhhe.com/biosci/esp/2002_general/Esp/folder_structure/le/m1/s3/lem1s3_3.htm http://www.yellowtang.org/animations/organization.swf http://quizlet.com/15397466/levels-of-organization-cells-flash-cards/

Prokaryotic and Eukaryotic Cells

https://www.wisc-online.com/learn/natural-science/life-science/ap11604/identifying-eukaryoticanimal-cell-organelles

http://www.scienceprofonline.com/cell-biology/prokaryotic-and-eukaryotic-two-types-of-biologicalcells.html

http://www.quizmoz.com/quizzes/Science-Quizzes/p/Prokaryotic-Cell-Quiz.asp

http://quizlet.com/21621299/prokaryotic-and-eukaryotic-cells-vocabulary-flash-cards/

Cell Transport

http://utahscience.oremjr.alpine.k12.ut.us/sciber00/7th/cells/sciber/transpor.htm

http://quizlet.com/1219540/cell-transport-vocabulary-flash-cards/

http://glencoe.com/qe/science.php?qi=1395

Vocabulary

http://www.vocabulary.com/lists/33895#view=notes

http://glencoe.mheducation.com/sites/007877800x/student_view0/self-check_quizzes.html