

CH. 4: The Cell in Action

Lesson: 4-1 Exchange with the environment
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 6

Lesson Objective

Explain the processes of diffusion and osmosis. Compare passive transport with active transport. Explain how large particles get into and out of cells.

Teaching Procedure

Day 1: Read/discuss p. 84-85.
Day 2: Read/discuss p. 86-87.

Homework Assignment

Worksheet 4-1.

Lab

Demonstrate diffusion by adding dye and coffee to beakers of water.

Lesson: 4-2 Cell energy
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 6

****Correct Homework, if any****

Lesson Objective

Describe photosynthesis and cellular respiration.

Teaching Procedure

Day 1: Read/discuss p. 88-91.
Day 2: Lab

Homework Assignment

Worksheet 4-2

Lab

Culture yeast under microscope with time-lapse photography to show release of CO₂. Bake loaf of bread, show pockets left by release of CO₂.

Lesson: 4-3 The cell cycle
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 6

****Correct Homework, if any****

Lesson Objective

Explain how cells produce more cells. Know process of mitosis. Explain how cell division differs in plant and animal cells.

Teaching Procedure

Day 1: Read/discuss p. 92-93.
Day 2: Read/discuss p. 94-95.
Day 3: Make model of cell cycle per diagrams p. 94-95 using 6-panel folded paper, yarn, glue and markers.

Day 4: View/discuss http://www.iknow.net/CDROMs/cell_cdrom/cell3.html, and <http://cellsalive.com>

Homework Assignment

Day 1: Worksheet 4-3

Lesson: Test
Author: ...
Endorsed: ...
Level: Grade 6

Student Evaluation