

Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan

Dates:
 October 2 - 6, 2023

Time and Period:
 2:32 - 3:25 PM, Seventh Period

Performance Standard:

HS-LS1-4

Use a model to illustrate the role of cellular division (mitosis) and differentiation in producing and maintaining complex organisms.

HS-LS2-8

Evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce.

Monday, October 2

Topic	Performance Task: Photosynthesis and Cellular Respiration
Objectives	Discuss the processes of photosynthesis and cellular respiration.
Bell Ringer	What are three metabolic pathways of cellular respiration?
Procedure / Instructional Delivery	Discussion, Simulation, Models
Assessment	Performance Task: Amazing Race

Tuesday, October 3

Topic	The Cell Cycle, pp. 130 - 133
Objectives	Discuss two reasons for cell reproduction in multicellular organisms.
Bell Ringer	What are two reasons for cell reproduction to occur in multicellular organisms?
Procedure / Instructional Delivery	Laboratory Activity, Models, Discussion
Assessment	Ratio of Surface Area to Volume in Cells, pp. 133 Formative Assessment 5.1, pp. 133

Wednesday, October 4	
Topic	Mitosis and Cytokinesis
Objectives	List in order the four stages of mitosis and the changes that occur during each stage
Bell Ringer	Define <i>Cytokinesis</i> .
Procedure / Instructional Delivery	Laboratory Activity, Simulation, Usage of Histology Guide
Assessment	Laboratory Worksheet, pp. 138 and 139

Thursday, October 5	
Topic	Unit Test and Planning for Performance Task no. 2
Objectives	Identify different checkpoint pathways in a cell cycle and the consequences of their dysfunction on the fate of a cell.
Bell Ringer	Define <i>cancer</i> .
Procedure / Instructional Delivery	GRASPS: Cell Cycle and Cancer, Scaffolding
Assessment	Unit Test 1 GRASPS - Planning for Harkness Discussion, pp. 139 Exploring Elephant's Low Cancer Rates

Friday, October 6	
Topic	Regulation of the Cell Cycle, 140 - 143
Objectives	Discuss how the cell cycle is controlled by mechanisms both internal and external to the cell.
Bell Ringer	Define <i>Apoptosis</i> .
Procedure / Instructional Delivery	Observation stations, Models, Discussion
Assessment	Laboratory Worksheet, pp. 143 Formative Assessment 5.3, pp. 143 GRASPS - Planning for Harkness Discussion