

Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan	
Dates: September 11 - 15, 2023	Time and Period: 2:32 - 3:25 PM, Seventh Period
<p>Performance Standard: HS-LS1-3 Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.</p> <p>HS-LS1-5 Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy.</p> <p>HS-LS1-7 Use a model to illustrate that cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed resulting in a net transfer of energy.</p>	

Monday, September 11	
Topic	Osmosis, pp. 85 - 86
Objectives	Describe the osmosis and diffusion processes.
Bell Ringer	What is the difference between isotonic and hypertonic?
Procedure / Instructional Delivery	Discussion, Laboratory Activity, Post-Lab Discussion
Assessment	Observing Plasmolysis Worksheet 3.4 Formative Assessment, pp. 87

Tuesday, September 12	
Topic	Active Transport, pp. 89-91
Objectives	Describe the movement of particles by active transport
Bell Ringer	Why is ATP energy important in cell transport?
Procedure / Instructional Delivery	Discussion, Simulation, Video Presentation, Use of Mnemonics

Assessment	Practice Quiz Formative Assessment nos. 1, 3, and 4, pp. 91
-------------------	--

Wednesday, September 13	
--------------------------------	--

Topic	Endocytosis vs. Exocytosis, pp. 90 and 91
Objectives	Distinguish between endocytosis and exocytosis.
Bell Ringer	Define <i>endocytosis and exocytosis</i> .
Procedure / Instructional Delivery	Discussion, Simulation, Video Presentation
Assessment	Practice Quiz Vocabulary Skills Worksheet

Thursday, September 14	
-------------------------------	--

Topic	Cell Communication, pp. 84
Objectives	Describe the relationship between receptor proteins and signal molecules.
Bell Ringer	Differentiate between <i>membrane receptor and intracellular receptor</i> .
Procedure / Instructional Delivery	Discussion and Simulation
Assessment	Cell Communication Modelling Worksheet Critical Thinking nos. 21 - 31 pp. 94 and 95

Friday, September 15	
-----------------------------	--

Topic	Quiz no. 2 and Introduction to Cellular Respiration, pp. 97 and 98
Objectives	State the relationship between energy stored in food and ATP.
Bell Ringer	What is the role of ATP or adenosine triphosphate in cells?
Procedure / Instructional Delivery	Discussion, Video Presentation, Simulation, Use of Wallet-Money Analogy
Assessment	Quiz no. 2 Photosynthesis and Cellular Respiration Worksheet Vocabulary Skills Worksheet