

Edmore Public School
706 Main St, Edmore, ND 58330

Biology Lesson Plan

Dates:
 December 4 - 8, 2023

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

Performance Standard:

HS-LS1-1

Construct an explanation based on evidence for how the structure of DNA determines the structure of proteins which carry out the essential functions of life through systems of specialized cells.

HS-LS2-8

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

HS-LS3-1

Construct an explanation to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.

HS-LS3-2

Make and defend a claim based on evidence that inheritable genetic variations result from various factors.

HS-LS3-3

Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population.

Monday, December 4

Topic	Translation, pp. 233 - 234
Objectives	Explain the purpose and process of transcription.
Bell Ringer	Differentiate between start codon and stop codon.
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Worksheet

Tuesday, December 5

Topic	Review Quiz Completion of Worksheet: Central Dogma
Objectives	Explain the process of Replication, Transcription, and Translation.
Bell Ringer	Differentiate the following: promoter and terminator vs. start codon and stop codon
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Worksheet

Wednesday, December 6	
Topic	Gene Expression and Regulation, pp. 238 - 243
Objectives	Describe gene expression.
Bell Ringer	Define <i>Promoter and Operon</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Worksheet

Thursday, December 7	
Topic	Gene Expression and Regulation in Eukaryotes, pp. 238 - 243
Objectives	Describe gene expression.
Bell Ringer	What is the difference between eukaryotic and prokaryotic gene expression and regulation?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Worksheet Quiz

Friday, December 8	
Topic	Mutations, pp. 244 - 246
Objectives	Identify the primary mechanism for genetic change and differences among organisms.

Bell Ringer	Define <i>Mutation</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Worksheet