# Edmore Public School 706 Main St, Edmore, ND 58330

Biology Lesson Plan	
<b>Dates:</b>	Time and Period:
November 27 - December 1, 2023	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, November 27	
Topic	Unit Test: Mendelian and Non Mendelian Genetics Introduction to DNA, pp. 216
Objectives	Identify the substance that makes up genetic material.
Bell Ringer	What are the four nucleotide bases of <b>DNA?</b>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Unit Test

Tuesday, November 28	
Торіс	Structure of DNA, pp. 220 - 224
Objectives	Identify the components of DNA and its structure.
Bell Ringer	Define <i>Nucleotides</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Worksheet: DNA Model

Wednesday, November 29	
Торіс	Laboratory Activity: DNA Extraction, pp. 220 - 224
Objectives	Extract strands of DNA from the nuclei of strawberry cells.
Bell Ringer	What is a nucleotide made of?
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Laboratory Worksheet

Thursday, November 30	
Торіс	Replication, pp. 225-228
Objectives	Explain the purpose and process of replication.
Bell Ringer	Define <b>DNA polymerase.</b>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
Assessment	Worksheet

Friday, December 1	
Торіс	Transcription, pp. 229 - 232
Objectives	Explain the purpose and process of transcription.
Bell Ringer	Define <i>Central Dogma</i>
Procedure / Instructional Delivery	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity

Assessment	Worksheet
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